CONSTRUCTION NEWS

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CONTENTS.

CONSTRUCTION NEWS:
Railways 49
Electric Railways 49
Light and Power Plants 50
Bridges 50
Buildings 51
Water Supply and Irrigation 52
Sewerage 53
Sewage Disposal 53
Streets and Roads 53
Manufacturing Plants 54
Miscellaneous Contracts 54
Contract Prices 55
Plans and Specifications on File 56
List of Contracts Pending 56
EXAMINATIONS 56
PROPOSALS 50

(List of Contracts Pending, and the list of Plans and Specifications on file at the office of Engineering News, will be found on the last page of this Supplement.)

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ALBERTA.—See Canada.

ARIZONA.—Arrangements are being made by Evans Mines & Smelter Co., Laughlin Bldg., Los Angeles, Cal., to construct a railroad between Swansea, Mohave County, Ariz., and Haviland, Ariz., a station on the Santa Fe, a distance of 65½ miles, at a cost of $786,000. A survey has been completed and bids received for construction of this road between Swansea and Centennial mine, with a branch to McCracken mine.

ARIZONA EASTERN.—Robert S. Lovett, 120 Broadway, New York, Pres. of the Southern Pacific Co., with others interested in the Harriman lines, have filed in Phoenix, Ariz., articles of incorporation of the Arizona Eastern Railroad Co. The company is capitalized for $40,000,000. The new company is to take over all the Arizona properties of the Southern Pacific Co. and to add further mileage. The incorporators, besides Judge Lovett, are Epes Randolph, Eugene S. Ives, Charles Walker and Gibson Taylor, of Tucson; Benjamin Titus, D. H. Kedzie, M. M. Crosker and O. S. Lordsburg. The properties to be taken over are the Arizona Eastern R. R. Co., the Maricopa & Phoenix R. R. Co., Arizona & Colorado R. R. Co., and the Phoenix & Arizona R. R. Co. and the Gila Valley, Globe & Northern Ry. Co. The new company is to build from the main line of the Southern Pacific through Arizona and western New Mexico, to Durango, Co., where the company has large coal deposits. Other lines are to reach the principal cities of Arizona, according to press reports, to compete with the Phelps-Dodge lines in that section.

Buckhannon & Northern Co. has announced that it has not yet been definitely decided when construction will be started on the line from the west side of the Monongahela River in Pennsylvania at the West Virginia stateline, southwest via Morgantown, W. Va., and Rivesville to Fairmont, about 35 miles. There will be a number of small bridges. J. T. Blair is Pres., and S. D. Brady, Ch. Engr., both at Parkersburg, W. Va. Officially noted last week.

ATCHISON, TOPEKA & SANTA FE.—GEO. W. WEST, of San Bernardino, Cal., has taken entire contract for double-tracking the line of Santa Fe from Daggett to Cottonwood, Cal. Contract was originally awarded to Sharp-Hemser Co., but has now been turned over to Mr. West by that firm.

CANADA.—From the annual report of the Canadian Controller of Railway Statistics for 1909, Paul Lang, U. S. Consul at Sherbrooke, Que., has compiled the following statistics: The mileage of railways in actual operation increased 1,138 during 1909, as compared with 514 miles in 1908, exclusive of 675 miles of railway open for traffic on the new Transcontinental line which is officially returned as being still "under construction." On June 30 last it was estimated that at least 3,300 miles were in process of construction. The total mileage on that date is given as 30,330 miles. There is one mile of railway for every 300 inhabitants, and 0.6 mile for every 100 square miles of territory. During the year the new mileage was distributed as follows: 550 to Saskatchewan, 296 to Ontario, 94 to Manitoba, 89 to Quebec, 63 to British Columbia, 37 to New Brunswick, and six to Nova Scotia. Official returns are not given for Alberta. During the year $69,186,403 were added to the total capital liability of railways in Canada. The total now stands at $1,308,481,416, or $55,638 per mile. There are 2,039 miles of government railways in operation constructed at the capital cost of $111,545,903. Canadian railways carried 32,683,309 passengers and 66,842,258 tons of freight in 1909, a decrease of 1,361,683 in the number of passengers and an increase of 3,771,091 in the freight tonnage as compared with 1908.

William O'Brien, of Renfrew, Ont., is interested in a project of a syndicate of Eastern promoters who will this summer undertake the construction of a line of railway by which it is proposed to open the coalfields of the Yellowhead Pass Coal & Coke Co., west of Edmonton, Alta. It is proposed to build 50 miles of this branch this year, and it is said that the contract will be awarded in a few weeks.

The Dominion Government will begin the construction of a railway to Hudson Bay next spring. This announcement was made to Parliament last week by Hon. George P. Graham, Minister of Railways. The road will be built as a government work, but probably will be operated by a private corporation or by several jointly. It has not yet been decided whether the terminus will be at Churchill or Nelson. It is believed that the route will be available four months in the year and that a great part of the Western Canadian wheat crop can be hauled out each year at a saving of five cents a bushel in freight. The Ocean distance to Liverpool from the Hudson Bay ports is about the same as the distance from Montreal. The line is expected to be opened for business in three years. The Hudson Bay R. R. was fully noted on Dec. 23, '09.

CANADIAN PACIFIC.—William Whyte, Second Vice-Pres., in charge of the western lines, has stated that good progress would be made next summer on the double-tracking between Winnipeg and Brandon. This year the main line from Winnipeg to Portage la Prairie would be double-tracked, and the rest of the 132 miles to Brandon next year, which would relieve the congestion on this busy section.

Announcement was made last week at Winnipeg, Man., by G. J. Bury, Gen. Mgr. of Western Lines, C. P. R., that this "company will spend $30,000,000 in Western Canada this year in extensions into new settlements, bridges, shops and double-tracking the main line."

CHICAGO, MILWAUKEE & ST. PAUL.—Directors have ordered the construction of a branch line from Warden, on the present main line, in Douglas County, northerly and easterly to Griffith (Ritzville post-office), Adams County, 45 miles.

FLORIDA RY.—At a meeting on Feb. 5 of the stockholders of the Florida Ry. Co. at Live Oak, Fla., the capital stock of the company was increased from $2,000,000 to $4,000,000. The increase was made for the purpose of extending the line from Live Oak to Fernandina, via Jacksonville, and equipping the road with rolling stock. The extension of the road will be built as fast as possible. Frank Drew is Pres.; T. P. Alston is Gen. Supt., Live Oak.

GEORGIA.—The Board of Trade of Calhoun, Ga., is interested in a movement to build a railroad from Calhoun to Reeves, connecting with the Southern Ry. A. H. Chastain is Pres.; H. J. Ruff, Secy., and A. R. McDaniel, Treas.

GREAT NORTHERN.—We are officially advised that construction of a branch of the Great Northern Ry. to extend through the Fort Shaw Unit of the Sun River project, Montana, probably will commence with the opening of suitable weather this spring. During the summer of 1909 the engineers of the Great Northern Ry. located a line up Sun River Valley through the Fort Shaw Unit of the Sun River project, leaving the railroad at Vaughn, Mont., and running to a point where the river leaves the mountains. Reconnaissance engineers were in the mountains locating passes and the most feasible route, with the idea of carrying this line through to a connection with the company's present main line in the vicinity of Columbia Falls. The location survey was approved by the Board of Directors of the railroad company on Dec. 29, 1909, and on Jan. 15, 1910, maps were filed in the United States Land Office at Great Falls, Mont., for the purpose of securing right-of-way over the Government land covered by this location. The president of the Great Northern Ry. Co. states that construction will begin as soon as the weather permits. A. H. Hogeland is Ch. Engr., St. Paul, Minn.

HUDSON BAY R. R.—See Canada.

KANSAS, LAWTON & GULF.—This company, with headquarters at Walter, Okla., has filed amended articles of incorporation, providing for an additional branch line 300 miles in length, starting in the southern part of Comanche County and running northeast through Stephens, Grady, McClain, Cleveland, Oklahoma, Logan, Payne, Pawnee and Osage counties, to the State-line. The line provided for the original charter of the company is 250 miles long, running from Randlett, in Comanche County, northwest through Kiowa, Caddo, Custer, Washita, Dewey, Woodward and Harper Counties in the Kansas state-line. The company is capitalized at $5,000,000 and the directors are: A. W. Green, H. F. Crossman, C. M. Becham and E. F. Sawyer, of Walter; J. M. Bellamy, of Lawton, Okla.

MISSISSIPPI RIVER WESTERN.—At a recent election the city of Natchez, Miss., voted a bond issue of $50,000 to be given to the Mississippi River Western R. R. Co. The $50,000 is not to be paid to the road until they have completed the same from Meridian to Natchez and running trains into this city over its own tracks, as noted on Aug. 5, '09, this "company was organized to build from Meridian, Miss., southwest via Mendenhall and Raleigh to Natchez. Financial arrangements have been made. J. W. Hudson is Vice-Pres.; C. F. Scofield, Secy.; R. L. Corrington, Treas., all of Haselhurst, Miss. Hon. A. H. Longino is General Counsel, Jackson, Miss."

MISSOURI PACIFIC.—C. S. Clarke, St. Louis, Vice-Pres. of the Missouri Pacific Ry. System, has filed with Gov. Stubbs and the State Board of Railroad Commissioners at Topeka, Kan., according to press reports, a statement promising the expenditure this year of about $4,000,000 on the Missouri Pacific lines in Kansas, and showing for what the money will be expended.

NORFOLK & WESTERN.—We are officially advised by Chas. S. Churchill, Ch. Engr., that contracts were awarded as follows on Feb. 4 for second-track work in Ohio and West Virginia, and also branch line work: D. W. FLICKWIR, Roanoke, Va., 3.2 miles of branch lines work on Indian Creek above Cedar Bluff, including tunnel. J. H. SERPELL & SON, Louisville, Ky., three miles of double track, including tunnels, east of Huger, W. Va. THE LUCK CONSTRUCTION CO., Roanoke, Va., three miles of double track west of Wyoming, W. Va. CARPENTER & BOXLEY, Roanoke, Va., three and a half miles double track west of Wharncliffe, W. Va. MOORMAN BROS. CO., Lynchburg, Va., three and a half miles double track east of Devon, W. Va. THE RYAN CO., Lexington, N. C., eleven miles double track in Ohio west of Davis. THE E. G. NAVE BROS. CO., Portsmouth, Ohio, seven miles double track east of Piketon, Ohio. STURM & ADAMS, Columbus, Ohio, six miles double track between Renick and Delano, Ohio.

NORTH AND SOUTH CAROLINA RY.—The directors of this company have filed a petition with the Secretary of State, Columbia, S. C., for permission to increase the company's minimum capital stock from $150,000 to $1,000,000, and extend its line 20 miles. The extension will pass through one of the best sections of the State. The railway now runs from a point on the North Carolina line, in Marlboro County, to a point in the township of Harleesville, in Marion County, a distance of 40 miles. J. E. Hancock is Vice-Pres. and Mgr., Hamlet, N. C.

PRAIRIE FARM & SOUTHWESTERN.—It is announced that contracts probably will be let this spring to build from Prairie Farm, Wis., southwest to Glenwood or to Emerald, about 20 miles. Connection is to be made on the northern end with the Minneapolis, St. Paul & Sault Ste. Marie Ry. The work includes three small bridges. G. E. Scott is Pres., Prairie Farm.

ST. LOUIS, IRON MOUNTAIN & SOUTHERN.—Stockholders of this company have voted to increase the capital stock to $190,000,000, an increase of $60,000,000. The absorption of 23 auxiliary lines and an increase of $25,000,000 in the bonded indebtedness, out of which the lines will be improved, were voted on favorably. The auxiliary lines which were acquired are: Arkansas & Louisiana; Arkansas Midland; Arkansas Southwestern; Brinkley, Helena & Indian Bay; Coal Belt; Eldorado & Bastrop; Farmersville & Southern; Garland Western; Gurdon & Fort Smith; Gurdon & Fort Smith Northern; Herrin Railway; Herrin & Johnston City; Kansas & Arkansas Valley; Little Rock & Hot Springs Western; Little Rock & Monroe; Little Rock Junction Railway; Mississippi River, Hamburg & Western; Natchez & Western; New Orleans & Northwestern; Pine Bluff & Western; Springfield Southwestern; St. Louis, Watkins & Gulf, and Wabash Southern. Noted on Dec. 2, '09.

ELECTRIC RAILWAYS.

RUTLAND, VT.—The Rutland Ry., Light & Power Co. is surveying line for the extension to Poultney, six miles. J. Loftus is Ch. Engr.

BOLIVAR, N. Y.—The Bolivar & Wellsville Ry. Co. has been incorporated in New York to build an electric railway, 19 miles long, from Bolivar to Wellsville. Franchises have been applied for in the towns through which the line will pass. Incorporators are Benjamin F. Patterson, of Brooklyn; C. M. Vanburen and A. J. Matson, of Bolivar. Noted on Feb. 3.

CATSKILL, N. Y.—The Catskill Traction Co. is reported incorporated to construct an electric railway from Hudson River dock in Catskill through Catskill, Jefferson, Leeds and South Cairo to Cairo. Capital stock, $200,000. Directors are F. N. Dubois and John H. Story, of Catskill; John C. Conway, Brooklyn, and L. G. Hechinger, of East Orange, N. J.

SLIPPERY ROCK, PA.—The Pittsburg, Butler, Slippery Rock & Grove City Ry. Co. was organized recently to construct a trolley line between those places, a distance of 20 miles. Application for a charter will be made at once. The directors are Attorney W. C. Thompson, J. A. Smith, Dr. W. C. McCandless and Alf M. Reiber, of Butler; and John C. Kerr, of Slippery Rock. Mr. Thompson is Pres., Mr. Smith Secy., and Dr. McCandless Treas. F. E. Barrett, of Pittsburg, has been employed to make final surveys and the exact route will be selected this month. Connection will be made with the Pittsburg & Butler and the Pittsburg, Harmony, Butler & New Castle lines at Butler, and with the proposed Slippery Rock & Grove City trolley line, contracts for the construction of which will be let in March. The road will extend through Prospect and West Liberty. With this link constructed Grove City will be connected with Pittsburg by trolley. Noted on Jan. 27.

WEST CHESTER, PA.—The West Chester & Wilmington Elec. Ry. Co. has plans under way for the construction of its line between West Chester, Pa., and Wilmington, Del., 17 miles. As noted on Sept. 23, St. George H. Cooke is Engr., Real Estate Trust Bldg., Philadelphia. Right-of-way has been secured and surveys made.

CLARION, PA.—Final surveys have been made and construction contracts will be awarded early in the spring, it is stated, for the Clarion & East Brady Electric Ry., 31 miles long, from the county seat of Clarion County, through Reidsburg and Philipston to East Brady, Armstrong County. At Reidsburg, connection is to be made with the Franklin & Clearfield branch of the New York Central lines and at East Brady with the Allegheny Valley R. R. The new line will mean a saving of 25 miles in the distance between Clarion and points south, including Pittsburg. George E. Arnold, Pres., Clarion, Pa., has announced that ample capital to build the line is forthcoming. Substations will be built at Rimersburg and Phillipston. It is proposed to carry express and mail. Noted on Sept. 16, 1909.

NEW CASTLE, PA.—R. M. Russell, Pres. of the New Castle & New Wilmington Elec. Ry. Co., Westminster, Pa., announces that this railway will be built within the next ten months, according to press reports. Surveys are in progress. Noted on April 8, '09.

BEAVER FALLS, PA.—The Borough Council has granted a 40-year franchise to the Beaver Falls & New Castle St. Ry. Co. to build a street railway through certain streets of Beaver Falls. Construction will begin within six months. As noted on Mar. 11, '09, we were officially informed that the Beaver Falls & New Castle St. Ry. Co. will construct a line 22 miles long, connecting Beaver Falls, Koppel, Wampum, West Pittsburg and New Castle. C. Strohecker, Zelienople, Pa., is Gen. Mgr.

GREENVILLE, S. C.—Survey has been commenced on the Greenville, Spartanburg & Anderson Ry. between Anderson and Spartanburg, 65 miles. It is expected that actual construction will begin in May. It probably will pass through Belton, Williamston, Pelzer and Piedmont between Anderson and Greenville, and through Taylors, Greer, Pelham, Duncan, Reidville, Wellford, Lockhart, Fairforest and Spartan Mills, between Greenville and Spartanburg. Noted fully on Jan. 20.

PENSACOLA, FLA.—The Lakeview Street Car Co., of Pensacola, will apply for a charter. Capital will be $20,000. J. E. Baars, Theodore Baars and John W. Bullock, Jr., all of Pensacola, are the incorporators.

BRYAN, OHIO.—The City Council has granted the Fort Wayne & Toledo Electric Ry. Co. a franchise to construct an electric railway in Bryan. This is part of a plan to build an interurban railway which will connect Bryan, Ohio, and Fort Wayne, Ind., via Hicksville, Farmer and William Center, as noted on Sept. 30, '09. R. T. Bastress, Harlan, Ind., is Gen. Mgr.

KOKOMO, IND.—We are officially advised that the Kokomo Western Traction Co. has made surveys for its railway and has secured right-of-way also. Capital is partly obtained and the project is now being financed and financial assistance is desired. Independent motor cars for passenger service and gasoline locomotive for freight will be used. Company wishes to let construction contracts early in the spring. The line will run from Kokomo to Burlington and Young America, 18½ miles. C. C. McFann is Pres., Kokomo. Noted on Jan. 6.

CHICAGO, ILL.—Construction has been commenced on the Hammond, Chicago Heights & Southern Traction Co.'s line, 16 miles long, from Hammond to Lansing, Ill. Repair shops will be located at Lansing. The company will purchase power and operate six cars. Capital stock, authorized and issued, $500,000. Bonds, authorized, $250,000. William S. Reed is Pres.; Joseph Orr, Vice-Pres.; Alfred Van Steenberg, Secy., and E. R. Davis, Treas. Headquarters, 1145 First National Bank Bldg., Chicago. Noted on Jan. 20.

DECATUR, ILL.—The Decatur Southern Traction Co. has been incorporated in Illinois to build a line from Decatur, Macon County, to Pana, Christian County, through the Counties of Macon, Shelby and Christian. The principal office is to be located at Decatur and the capital stock is to be $25,000. The incorporators and first Board of Directors are: George H. Winson, James Aldrich Smith, 170 Broadway, and Joseph Nordenschild, of New York; J. J. Pierpoint, Pana, Ill.; B. J. Wilson, Denver, Colo.; Harry M. Snape, Springfield, Ill., and H. C. Simons, Virden, Ill.

BELLEVILLE, ILL.—L. C. Haynes, Vice-Pres. of the East St. Louis & Suburban Ry. Co., East St. Louis, Ill., has made a proposition to the Belleville City Council, by which the company asks a new franchise for 20 years for the operation of its road in Belleville and along the rock-road strip seven miles to Edgemont, and permission to increase its fare from 5 cents to 7½ cents in that 7-mile strip.

STERLING, ILL.—The Sterling & Northern R. R. Co. has applied for a charter to build a suburban railroad from Sterling to Savannah, with a branch to Freeport, a distance of about 70 miles. Incorporators are John Weis, Pres.; William Gillig and W. L. Bastian, of Chicago, and William H. Usborne and T. A. Galt, of Sterling. Mr. Usborne is Ch. Engr. and Gen. Mgr.

VIRGINIA, MINN.—The City Council has granted a franchise to W. M. Prindle, of Duluth, Minn., for the construction of an electric railway in Virginia. The railway is to extend from Virginia to Eveleth and Gilbert. Noted on Nov. 11, '09.

BRECKENRIDGE, MINN.—We are officially informed that contracts are now being arranged in Minneapolis and Chicago for building the Wahpeton & Breckenridge St. Ry. This company will build an electric railway on business streets of Breckenridge and

Wahpeton, N. Dak. Surveys are made and capital and right-of-way have been secured. F. L. Sturm is Ch. Engr., Wahpeton. Noted on Dec. 2, '09.

BILLINGS, MONT.—We are officially advised that F. A. Kesselhuth, of Billings, has succeeded H. F. Pierce as Ch. Engr. of the Eastern Montana Elec. Ry. Co. Surveys are being made and right-of-way is being secured. Necessary capital has been obtained. Contracts will be let when surveys are completed. The line will run from Billings up the Yellowstone Valley to Laurel, and up the Clark Fork to Red Lodge, about 87½ miles. D. D. Gile is Vice-Pres., Room 1006, 27 William St., New York. Noted fully on Jan. 6 and Jan. 27.

MISSOULA, MONT.—The Big Blackfoot Ry. Co. has been incorporated in Montana to build an interurban electric railway to start in Missoula County and terminate at the north line of Powell County. Capital stock, $250,000. John Gillie, C. F. Kelley and L. O. Evans, of Butte, and John R. Toole and Kenneth Ross, of Missoula, are the incorporators.

MONTESANO, WASH.—The Grays Harbor Interurban Ry Co. has applied for a new franchise to operate a railway in Chehalis County. The County Commissioners will hold a hearing on Feb. 21. As noted on Jan. 6, this company has filed articles of incorporation for an extensive electric railway system. Capital stock, $500,000. Incorporators are R. F. Lytle, A. L. Pain and E. O. McGlauflin, of Hoquiam; W. H. Abel and Eldridge Wheeler, of Montesano, and A. M. Abel and Phil S. Locke, of Aberdeen. On Dec. 30 it was noted that the County Commissioners had granted a 50-year franchise to Eldridge Wheeler for the construction of an electric railway from Moclips, Chehalis County, to Gate, Thurston County.

BAKER CITY, ORE.—The Baker Interurban Ry. Co. has let contract for 7,000 railroad ties for its proposed line. It is planned to have 2½ miles in operation by July. Noted on Jan. 13. Anthony Mohr is Pur. Agent, Baker City. Thos. B. Neuhauson is Pres.

HOOD RIVER, ORE.—The Hood River Light & Power Co., with $2,000,000 capital, has filed incorporation papers at Portland for the purpose of constructing an electric railroad from the mouth of Hood River to a point in the Mount Hood district. Incorporators are: J. D. Wilcox, of Portland; W. Minor, of the law firm of Teal & Minor, also of that city, and R. Smith, of the Stanley-Smith Lumber Co.

MIST, ORE.—At a recent meeting here, committees were appointed by the Commercial Club to ascertain the cost of surveying a route for an electric railroad to Clatskanie, and if the estimate cost of construction is not too high, citizens will endeavor to build the road.

LOGAN, UTAH.—The Logan Rapid Transit Co. has been incorporated to build an electric railway in Logan. Capital stock, $100,000. David Eccles is Pres., Ogden, Utah; Robert Anderson, Vice-Pres.; Joseph Quinney, Jr., Secy. and Treas. Mr. Eccles is Pres. of the Ogden Rapid Transit Co.

IDAHO FALLS, IDAHO.—The Idaho Falls Elec. Ry. Co. will start construction this spring on the proposed line which will connect Idaho Falls, Lincoln, Ammon, Iona and Heise. Capital stock, $1,000,000. J. L. Milner, Idaho Falls, is Pres.; F. L. Cleveland, Pittsburg, Pa., Vice-Pres.; H. S. Sewell, Idaho Falls, Secy., and A. V. Scott, Idaho Falls, Treas.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

RUMFORD, ME.—The Rumford Falls Power Co. has awarded contract to the PORTLAND CO. for the construction of a large penstock 1,050 ft. in length and 14 ft. in diameter, which will develop 7,000 HP. Charles A. Mixer is Supt. and Ch. Engr.

AUGUSTA, ME.—The Kennebec Development Co. will construct three large dams at Indian Pond to harness the waters of the Kennebec River a short distance below Moosehead Lake's outlets. Each dam will develop 30,000 HP. Estimated cost, $9,000,000. O. H. Briggs is Pres.

GLOUCESTER, MASS.—The Board of Water Commissioners has decided to install an electric light plant at the power station at West Gloucester to provide electricity for lighting the station. An engine and generator manufactured by the E. F. Sturtevant Co., of Hyde Park, Mass., will be installed.

WORCESTER, MASS.—The directors of the Worcester Electric Light Co., W. H. Coughlin, Mgr., Supt. and Ch. Engr., voted on Jan. 19 to construct the proposed new plant on the Curtis pond property, recently purchased.

EAST BOSTON, MASS.—The ALLIS-CHALMERS CO., of Milwaukee, Wis., has been awarded contract for electrical equipment for new type of power drive adopted by the Maverick Mills, East Boston. Equipment includes: One 1,500-KW., 1,800 r. p. m., 60-cycle, 3-phase, 600-volt condensing steam turbo-generator; one 15-KW. motor generator set; one 15-KW engine driven set; one 4-panel switchboard; four 100-HP. and seven 150-HP. A. N. induction motors.

LAWRENCE, MASS.—The Boston & Northern Street Ry. Co. has ordered repairs and a reconstruction of the present power plant on Merrimack St. Work has already been started. Among the improvements, two boilers of high pressure and a 1,200-KW. dynamo will be installed. A 150-ft. chimney with a 19-ft. base will also be erected. G. W. Palmer, Jr., Boston, is Electrical Engr.

SPRINGFIELD, MASS.—Contract for the installation of all electrical work in the new municipal group was let by the Municipal Building Commission on Feb. 2 to the M. B. FOSTER ELECTRIC CO., 54 Batterymarch, Boston, Mass., at $21,325.

TORRINGTON, CONN.—Preparations are being made by the Torrington Electric Light Co. for installing another 1,000-HP. steam turbine, the second within a year. The increase is to be made to meet the demands for electricity for motors. A. F. Breckinridge is Supt.

BRIDGEPORT, CONN.—The Board of Aldermen has awarded contract to the UNITED ILLUMINATING CO., 148 John St., Bridgeport, for the installation of magnetite lamps, superseding the present contract with the city at a reduction of about $5 per lamp per year. The contract calls for the installation of 625 or more lamps at the rate of $73 each per year, or if 700 lamps are used, $71.17 per year per lamp. Under the present contract the city pays $78.47 for each arc lamp. The new contract runs for 18 months.

*BRISTOL, CONN.—The Bristol & Plainville Tramway Co. will receive bids until March 1 for laying approximately eight miles of gas mains. The pipe will be furnished by the company. Specifications may be obtained upon application to the company's office.

*NEW LONDON, CONN.—We are officially advised that bids were received as follows on Feb. 5 by Lieut.-Col. Harry Taylor, Corps Engrs., U. S. A., for insulating cable: Habirshaw Wire Co., 253 Broadway, New York, (informal); Hazard Mfg. Co., 50 Dey St., New York $37,042; Safety Insulated Wire & Cable Co., 114 Liberty St., New York, $34,984; Western Electric Co., 463 West St., New York, (informal); Standard Underground Cable Co., 50 Church St., New York, $31,184; Simplex Electrical Co., $32,044; Montgomery & Co., 105 Fulton St., New York, (informal); Kerite Insulated Wire & Cable Co., 30 Church St., New York, $46,006 (construction not as per specifications); General Electric Co., 30 Church St., New York, $32,721; American Steel & Wire Co., 30 Church St., New York, $39,508; Diamond Rubber Co., 1876 Broadway, New York, (informal); Waterbury Co., 80 South St., New York, $39,589. The firms noted as informal either submitted no guaranty or incomplete bids. The work includes 24,540 ft. of lead sheathed, 73,560 ft. of armored cable under Type "A," and 1,000 ft. of braided, 30,725 ft. of lead sheathed, and 25,755 ft. of armored cable under Type "C."

BROOKLYN, N. Y.—The Public Service Commission has adopted an order authorizing the Kings County Electric Light & Power Co. to issue $2,500,000 of bonds for improvements and extensions.

MARION (Jersey City post-office), N. J.—Contracts have been awarded by the Public Service Corporation, Newark, for the construction of an addition to its power station at Marion to the A. E. SANFORD CO., foot of Fourth Ave., Newark, for foundation piling, and the HEDDEN CONSTRUCTION CO., 1 Madison Ave., New York, for building. The building will be 75 × 100 ft. Equipment will include ten boilers and generating machinery with a rating of 18,000 KW.

READING, PA.—Contract for lighting the streets of the city has been awarded to the METROPOLITAN ELECTRIC CO., Reading, for a term of five years. The company is to furnish 700 or more arc lamps at $67.50 per lamp per year; 500 tungsten lamps at $19.20 each per year; and 500 Welsbach lamps at $25 per year.

PUNXSUTAWNEY, PA.—The Jefferson Electric Light, Heat & Power Co. has voted to reconstruct the plant. It is understood that the plant will be moved to the outskirts of the town, and a 60-cycle, 3-wire, 2,200-volt system installed. Estimated cost, $75,000. Jacob L. Fisher, Secy.

CONNELLSVILLE, PA.—The WESTINGHOUSE CO. was awarded contract on Feb. 3 by the West Penn Railways Co. for two 12,000-HP. steam turbines, two 200-HP. turbines and 18 sets of latest type railway motors of 300 HP. each. The West Penn power-house here, which supplies power and light for about 30 towns in western Pennsylvania will be doubled in capacity.

KENDALL, MD.—Preparations are being made for the construction of a large dam on the Youghiogheny River, above here, to transmit electricity within a radius of 50 miles to supply manufacturing industries. It is expected that 250,000 HP. can be developed. Clarkeson & Co., 43 Exchange Place, New York, are interested, it is reported, in the project.

BALTIMORE, MD.—Preparations are being made by the Big Vein Pocahontas Coal Co., 1214 Continental Bldg., Baltimore, for extensive development of its properties, which will call for power equipment, including boilers, engines, generators, motors, etc. Some of the machinery has already been purchased.

INDIAN HEAD, MD.—Bids were received as follows on Feb. 8, by the Navy Department, Washington, for installing a power plant in connection with the United States Naval Proving Ground at Indian Head.: Ball Engine Co., Arcade Bldg., Philadelphia, Pa., $96,750; Westinghouse Electric & Mfg. Co., 121 E. Baltimore St., Baltimore, Md., $93,685; D'Olier Engineering Co., 121 S. Eleventh St., Philadelphia, $107,740; General Electric Co., Schenectady, N. Y., $91,853; $82,298.

NEWPORT NEWS, VA.—The question of installing a municipal electric light plant here is under consideration. Marius Jones is Mayor.

RICHMOND, VA.—The Virginia Railway & Power Co., Richmond, has awarded contract to the WESTINGHOUSE ELECTRIC & MFG. Co., 121 E. Baltimore St., Baltimore, for a 6,000-HP. turbo-generator. When installed the plant will have a capacity of 24,000 HP.

*WHEELING, W. VA.—Bids are asked by Capt. F. W. Altstaetter, Corps Engrs., U. S. A., until 11 a. m., March 9, for constructing a fire-proof power-house; installing 100 HP. gas engines, air compressors, receivers, piping, etc., and drilling a well at each of Dams Nos. 8 and 11, Ohio River. Bids will be considered on the entire plant for each dam, or for houses, machinery, etc.,

WAYCROSS, GA.—The Street Committee of the City Council has recommended the installation of 50 additional street arc lamps this year. The reduction in the price of electricity for arc lamps announced by the Loomis syndicate, which recently took over the property of the Waycross Electric Light & Power Co., will make it possible for the city to improve the street lighting service.

CREIGHTON, GA.—Contract for the construction of the power development on the Etowah River, near Creighton, for the Blue Ridge Power Co., has been secured by FRANK B. GILBRETH, INC., 60 Broadway, New York. This work will include the construction of a Ransom hollow dam 42 ft. high and 600 ft. long, and a reinforced concrete power-house sufficient for 4,000 HP. installed.

ATHENS, GA.—Contract has been awarded to the AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, Mass., for building a dam 48 ft. high and 850 ft. long for the James White Power Co., Athens. Work has already commenced.

TALLADEGA, ALA.—Arrangements are being made by the Alabama Power Development Co. for the extension of its transmission lines to Anniston, by way of Jackson Shoals, on Choccolocco Creek, and ultimately to develop power at the shoals. The plant of the Anniston Electric & Gas Co. will furnish electricity for operating the Talladega system and for the service furnished in the country through which the transmission line runs. R. A. Mitchell, of Gadsden, Ala., is Pres.; R. L. Rand, of Anniston, Ala., is Gen. Mgr.; J. M. Wolfe is Mgr., Talladega plant.

NASHVILLE, TENN.—Contract for installing the lighting fixtures in the new Davidson court-house has been awarded to HERBRICK & LAWRENCE, of Nashville.

ERWIN, TENN.—The O. P. Heath Co., of Charlotte, N. C., which has acquired the "Devil's Looking Glass" water power, located near here, will be in the market soon, it is reported, for hydraulic turbines and generators with a rating of 2,000 KW. One or more manufacturing plants will probably be erected near the power plant.

COLUMBUS, OHIO.—Plans are being considered by the Ohio Electric Ry. Co. for the erection of a number of new power plants on the Lima-Defiance division. It is stated that the present power facilities are inadequate for the operation of the large new cars which the company will soon place in commission. H. G. Gilpin, Lima, Ohio, is Supt.

EAST LIVERPOOL, OHIO.—The government officials have issued notices that the specifications for the construction of a power-house at Dam No. 8, below this city, will be available for contractors on Feb. 7. It is expected that the contract for the power-house will be let about the latter part of March.

BLOOMINGTON, IND.—Bids will be received by the Showers Co. for the equipment of a power plant including boilers, engines, generators, switchboards, pumps, motors, etc.

LELAND, MICH.—Preparations are being made by the Leland Light & Power Co. for extension of its transmission lines to East Leland, Fountain Point, Cedar City, Glen Arbour, Maple City, Honor and Empire during the spring. Harry P. Spencer is Gen. Supt.

HANCOCK, MICH.—Bids will be received by the Board of Public Works until 4 p. m., Feb. 14, for furnishing one single-acting, triplex-plunger pump, with capacity of 350 gallons per minute, together with electric motor, switchboard and appurtenances, delivered f. o. b. at Hancock. Copies of specifications can be obtained from the City Surveyor or City Clerk. A. F. MacDonald is Secy. Bd.

DECATUR, ILL.—Plans are being considered by the Progressive Light & Power Co. for the construction of an electric light plant here. W. H. Suffern is Pres.

EAST ST. LOUIS, ILL.—The Consumers' Light, Heat & Power Co. has purchased the plant and holdings of the Citizens' Electric Light & Power Co. This company was organized six months ago with a capital of $25,000, and was awarded a contract recently for lighting the streets and public buildings for a term of ten years from March 1, 1910, at $70 per arc lamp per year.

NEW RICHMOND, WIS.—The GENERAL ELECTRIC CO., 98 Jackson Boulevard, Chicago, Ill., has been awarded contract for electrical equipment for new Apple River power plant of New Richmond Roller Mills Co., consisting of generator, 400 KW., 6,600-volt, 3-phase alternator, water-wheel type, with necessary equipment, to be delivered June 1. The JAMES LEFFEL CO., Springfield, Ohio, has contract for furnishing twin water-wheels of 800 HP. capacity.

EAU CLAIRE, WIS.—The Chippewa Falls Railway, Light & Power Co., of Eau Claire, will build a dam 48 ft. high and 450 ft. long, including power-house, on the Red Cedar River at Cedar Falls. The AMBURSEN HYDRAULIC CONSTRUCTION CO., 170 Federal St., Boston, Mass., are the engineers and constructors, and work is to be begun at once.

ROCHESTER, MINN.—The Rochester Light, Heat & Power Co., successor to the Rochester Light & Fuel Co., is planning to enlarge the plant, proposing to supply both gas and electricity.

CANNON FALLS, MINN.—H. M. Byllesby & Co., of Chicago, are the engineers for a dam 50 ft. high and 500 ft. long, with power-house, to be built for the Consumers Power Co., near Cannon Falls. Contract for construction has been awarded to the AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, Mass.

LINCOLN, NEB.—Bids will be received by Roscoe C. Ozman, City Clerk, until Feb. 24 for furnishing and erecting with concrete foundation at the Hutton lighting station one 750-HP. cross-compound, condensing or non-condensing engine, or one turbine of the same rating, to be direct connected to a 3-phase, 60-cycle, alternating-current generator with exciter belted to engine shaft. Estimated cost, $21,835.

STERLING, NEB.—The Village Board has granted to C. L. Rothell, of Crab Orchard, Neb., a franchise to construct and operate an electric light plant here.

McGEHEE, ARK.—See item under Water Supply—Irrigation.

BRYAN, TEX.—See item under Water Supply—Irrigation.

PARIS, TEX.—Preparations are being made by the Paris Light & Power Co. to rebuild and improve its plant. Estimated cost, $15,000. John H. Porter is Mgr.

DENVER, COLO.—Plans are being considered by the Northern Colorado Power Co. E. A. Mooney, Supt., Boulder, Colo., for the construction of a large power and irrigation project. It is stated that Boyds Lake, Estes Park, and a series of reservoir sites to be used in connection with it will soon be turned over to the company. Estimated cost, $10,000,000.

ALBUQUERQUE, N. MEX.—Arrangements are being made to increase the output of the Albuquerque Electric Power Co., which will include the installation of a 500-KW. direct-connected unit and additional boilers. The Albuquerque company is controlled by the United States Light & Traction Co. C. K. Durbin, of Denver, Colo., is Vice-Pres.

The Albuquerque Gas, Electric Light & Power Co. will construct a gas tank of large capacity and a new high power electric plant. E. C. Butler is Mgr.

The Atchison, Topeka & Santa Fe R. R. Co. is said to be planning a new power-house to be erected here to supply power to its local shops. Estimated cost, $13,000.

TACOMA, WASH.—The CAMERON ELECTRIC CO. has been awarded the contract for furnishing Tacoma with lamps. Estimated cost, $25,000.

PASADENA, CAL.—The Pasadena Park Tract Land & Water Co. will install a water system, with power plant and pumps. The directors are M. T. Weeks, E. S. Crump and H. B. Boyle.

STOCKTON, CAL.—Plans are being considered by the Retail Merchants' Association of Stockton for improving the street lighting system. The proposition includes an expenditure of about $30,000 for the wiring and installation of the system on the principal business streets in the central section of the city. This work will begin as soon as plans have been adopted. It is proposed that the city shall own the distributing system and purchase electricity. Cluster lamps will be erected on the streets. Wires will be placed underground.

SANTA BARBARA, CAL.—The Southern California Edison Co. will spend $211,000 for a new gas plant here.

OAKLAND, CAL.—The People's Electric Light & Power Co. has voted $250,000 of bonds.

PHOENIX, ARIZ.—The Southside Gas Co. has awarded contract to E. A. McGILLIVRAY, of Los Angeles, for the construction of a gas plant at $50,000.

BOISE BARRACKS (Boise post-office), IDAHO.—Bids will be received at the office of the Constructing Quartermaster, Boise, until 2.30 p. m., Feb. 17, for the construction, plumbing, hot-air heating and electric wiring of a single set N. C. O. quarters, brick, with slate roof, at Boise Barracks.

VANCOUVER, B. C.—CHARLES C. MOORE & CO., 99 First St., San Francisco, has been awarded contract by the British Columbia Electric Ry. Co. for the construction of a plant at Vancouver. The plant has a total capacity of 4,000 KW. in two units.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids are asked until 2 p. m., Feb. 17, by Kingsley L. Martin, Comr. of Bridges, for furnishing and delivering lumber to Harlem River bridges.

JAMESTOWN, N. Y.—The Aldermen on Jan. 31 engaged Richard Irving of Pittsburg, Pa., to prepare plans and specifications for the construction of two bridges here.

*RYE, N. Y.—Bids will be received by George D. Henderson, Village Clk., until 8 p. m., Feb. 16, for building a bridge with abutments and retaining walls on Highland Road. The bridge is to consist of a concrete superstructure with rubble abutments and retaining walls. Engineer's estimate, $2,450. Cuyler W. Lush is Village Engr.

ATLANTIC CITY, N. J.—The Road Committee of the Board of Chosen Freeholders has decided to widen narrow bridges on the boulevard between this city and Pleasantville.

*PHILADELPHIA, PA.—The OWEGO BRIDGE CO., of Owego, N. Y., has been awarded contract at $11,500, by the Department Public Works, for the construction of a bridge over the Richmond branch of the Reading Ry. on the line of Wissahickon Ave. Bids were opened on Jan. 18. List of bidders noted on Jan. 27.

PITTSBURG, PA.—Contract was awarded to the AMERICAN BRIDGE CO., 30 Church St., New York, on Feb. 4, by the Pittsburg and Lake Erie R. R. Co., for the erection of a 60-ft. overhead span at Main St., on the South Side. The bridge is to be wide enough to accommodate four tracks with enough clearance for the wider patterns of cars now being ordered by the various railroads. The structure will be of the plate girder style and will contain 280 tons of structural iron when completed.

ANTHONY, W. VA.—The Miller-Crozier Lumber Co. will construct a 240-span wire suspension bridge across Greenbrier River.

SYLVA, N. C.—Bids are asked by the Board of Commissioners of Jackson County, H. R. Queen, Chn., Webster, N. C., until March 7, for the construction of a steel bridge, 90 ft. long in one span.

ATLANTA, GA.—R. M. Clayton, City Engr., has been instructed to prepare preliminary plans for the construction of a viaduct from Alabama St. to the West End.

BRADENTOWN, FLA.—Bids are asked until March 7 by the County Commissioners of Manatee County for the construction of steel bridges across East Palma Sola Bayou, West Palma Sola Bayou, Frog Creek and Phillippee Creek. R. H. Roesch is Clk.

DECATUR, ALA.—Morgan County Commissioners have ordered the construction of two steel bridges across west fork of Flint Creek.

JACKSON, MISS.—The city has voted $5,000 of bonds for the construction of bridges and storm sewers. A. C. Crowder is Mayor.

*CHATTANOOGA, TENN.—Bids are asked by the Board of Public Works until 2.30 p. m., March 1, for repairing the metal work and renewing the timber floor of the two 120-ft. truss-spans of the McCallie Ave. bridge over the rights of way of the Cincinnati Southern and Western & Atlantic Railroads. Plans and specifications furnished on application to Robert Hooke, City Eng. H. F. Van Dusen is Chn.

CHATTANOOGA, TENN.—Bids are asked until Feb. 23 by the Chickamauga and Chattanooga National Park Commission for the construction of a bridge across Chattanooga Creek on the Hooker Road. E. E. Betts is Engr. Comm.

JEFFERSON, OHIO.—Bids are asked by the Ashtabula Board of County Commissioners until 1 p. m., Feb. 14, for the superstructure of a plate-girder bridge, 70 ft. long, over Rock Creek, Rome Township; A. V. Hillyer is Clk.

JOLIET, ILL.—The AMERICAN BRIDGE & IRON CO. has secured contract for the construction of the steel work and for furnishing the material for the Jackson St. viaduct over the Elgin, Joliet & Eastern Ry. tracks.

EAST ST. LOUIS, ILL.—See item under Streets and Roads.

*WILMETTE, ILL.—Bids are asked by I. J. Bryan, Clk. Board of Trustees, Sanitary District of Chicago, until noon, Feb. 16, for metal work for Sheridan Road bridge and Wilmette pumping station, Wilmette. The work consists of furnishing, fabrication and erection of metal work. Advertised last week.

*DULUTH, MINN.—Bids will be received by the Board of Public Works until 10 a. m., Feb. 18, for the construction and erection of a mass concrete or reinforced concrete bridge, complete with abutments and approaches, and including pavement and sidewalk, over Tischer's Creek, on East Superior St., according to plans and specifications on file in the office of the Board, or according to plans submitted by bidder. Length of span, 84 ft.; length of spandrel wall, 172 ft. Outline description and blue prints can be obtained at the office of the City Engineer.

TOPEKA, KAN.—Bids are asked until Mar. 7, by the City Clerk, for the construction of an extension to the Melan bridge.

MINDEN, NEB.—Bids are asked until 2 p. m., Feb. 23, by J. H. Jensen, County Clk., for the construction of all bridges of wood or steel to be built by Kearny County for the year of 1910.

ROBY, TEX.—Estacado & Gulf Ry. has awarded contract to B. F. LEONARD, of Bowie, Tex., for constructing bridges on last four miles of road into Roby. Work will soon begin on the bridge across the Clear Fork of Brazos River.

VINITA, OKLA.—Osage Western Ry. Co., E. J. Noonan, Ch. Eng., will construct several bridges across Arkansas and Verdigris Rivers.

TACOMA, WASH.—Bids are asked until 11 a. m., Feb. 14, by H. J. McGregor, Com., Pub. Wks., for the construction of a reinforced concrete bridge across Buckley Gulch between Oakes and Fife Sts. on the line of North 23d St.

MARSHFIELD, ORE.—The County Court has awarded contract for the construction of the draw-bridge across South Slough to VICTOR ANDERSON, of North Bend, at $7,785.

LOYALTON, CAL.—GEORGE BRANDT of Quincy, Cal., has been awarded contract by the Board of Supervisors for constructing a steel bridge across Canyon Creek between Port Wine and La Porte at $4,710.

GLOBE, ARIZ.—Bids are asked by the Board of Trustees until Feb. 23 for the construction of a bridge across the Pinal Wash. J. H. Welch is City Clk.

FLORENCE, ARIZ.—R. R. COLEMAN, of Phoenix, has been awarded contract, it is reported, by the Territorial Board of Control, at $35,000, for the construction of a bridge of reinforced concrete, girder type, 705 ft. long and 20 ft. wide, over the Gila River near here.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

HOUSATONIC, MASS.—The contract for the erection of the proposed St. Bridget's Roman Catholic Church at the corner of Main and High Sts. at Housatonic has been awarded to ERNEST L. SAMPSON, of Plymouth, Mass. The new church will be 118 ft. long and 46 ft. wide with a tower 18 ft. square and 80 ft. high. It will have a seating capacity of 500 people in the main auditorium and 100 people in the chapel. The materials of construction will be cherry red brick and white mortar joints, gray sand blasted terra-cotta trimmings and green slate roof. The interior finish of the church will be of brown ash. It is planned to decorate the side walls and ceilings of the church in green, the nave of the church being comparatively simple and the sanctuary is to be highly decorated. It is planned to start work as soon as the frost is out of the ground, and it is hoped to complete the church in twelve months. Rev. John F. Fagan is Rector.

BEVERLY, MASS.—An appropriation of $85,000 has been voted by the City Council of Beverly for a brick school building to be erected in the Washington District. The structure will replace an old wooden structure.

HARTFORD, CONN.—The Southern New England Telephone Co. has purchased a tract of land east of its present exchange and will erect a building. Plans have not been prepared as yet, it is stated.

NEW YORK, N. Y.—Bids are asked by William H. Edwards, Comr. of Street Cleaning, until noon, Feb. 17, for furnishing and delivering building materials.

A hotel is to be erected at the northwest corner of Livingston St. and Hanover Pl, Brooklyn, occupying a plot 60 x 40 ft., by the Realty Associates, 176 Remsen St., Brooklyn. It will be six stories high and will have 60 rooms.

C. B. J. Snyder, Supt. of School Buildings, Dept. of Education, has filed plans for a 5-story school building to be erected in 113th St., east of Second Ave. It is to be of brick, finished with terra cotta and limestone, with a frontage of 226 ft. It will have three wings and will cost $339,000. It will be known as Public School No. 102.

Plans have been filed for a 6-story apartment house to contain 48 suites, to be built at the northwest corner of Broadway and 149th St., 99.11 ft. front and 147 ft. deep, from designs by Moore & Landsiedel, Archs., 2810 Third Ave., at a cost of $225,000, for the Gussaroff Realty Co.

At the Department of Buildings plans have been filed for an 8-story apartment house, with accommodations for 33 families, to be built on 99th St., west of West End Ave., at a cost of $175,000 for George Becker, Schwartz & Gross are Archs., 347 Fifth Ave.

NEW YORK, N. Y.—Bids are asked by the Fire Department until 10.30 a. m., Feb. 16, for furnishing all the labor and materials required for repairs and alterations to the plumbing systems in quarters of various companies.

St. Philip's Protestant Episcopal Church, which recently sold its church property on West 25th St. and other holdings on West 30th St., is to build a church on a plot fronting 72 ft. on the south side of 134th St., 153 ft. west of Seventh Ave. The plot was bought some time ago by the Rev. Hutchens Chew Bishop, Rector of the parish, and has been transferred to the legal representatives of the church. It is stated that the new church will cost about $200,000.

We are officially advised that the THOMPSON-STARRETT CO., 49 Wall St., New York, has the contract to erect a hotel for Charles E. Rector, which will have three stories under the level of the sidewalk and 14 above. D. H. Burnham & Co., Railway Exchange, Chicago, Ill., are Archs.

Pease & Elliman, 156 Broadway, have assembled for a cooperative syndicate, which they represent, a plot of about 10,000 sq. ft. at the southeast corner of Park Ave. and 62d St. At the combined site a 14-story apartment house will be built from plans by Herbert Lucas, Arch., 5 East 42d St. The operation involves about $1,000,000. A 20-ft. court will be left between the two structures so as to assure light and air for both.

NEW YORK, N. Y.—We are officially advised that the Fifth Ave. Baptist Church has decided upon the plans of a $400,000 church, about 100 x 100 ft. The location is to be the same as the old one, 46th St. and Fifth Ave. The plans submitted by William Welles Bosworth, Arch., 527 Fifth Ave., have been accepted. Both on the west and the east front corners will be vestibules and staircases and elevators. The upper part will have a ceiling 24 ft. in height. The main auditorium will have a dome, lighted from above, with a ceiling that will be 70 ft. high. There will be galleries, and a pulpit platform. The building will have a stone front and will be fireproof. The whole will seat about 1,500. Noted on Nov. 18, '09.

BUFFALO, N. Y.—W. H. Hoffman & Co., Archs., Farmers Bank Bldg., Pittsburg, Pa., are preparing plans for remodeling the Linn Museum at Broadway and Washington St., Buffalo, into a 2-story theater with a seating capacity of 1,000, and to cost $50,000. Contracts will be let at once.

The Hutchinson High School Building Commission will soon receive competitive plans from local architects for a 3-story and basement high school building to be erected by the city at Johnson Park, at Elmwood Ave. and Chippewa St., to cost $450,000. Henry P. Emerson is Supt. of Education, Hardin Bldg.; George F. Newton, 6 Beacon St., Boston, Mass., is Advisory Arch.

A 3-story and basement store and office building, 65 x 95 ft., is to be erected at Washington and Swan Sts., by Mitchell H. Marks, 611 White Bldg. W. H. Hoffman & Co., Farmers Bank Bldg., Pittsburg, Pa., Archs., are preparing plans. The structure will be of brick and structural steel construction. Work will be started in the spring.

TROY, N. Y.—Marcus T. Reynolds, 100 State St., Albany, N. Y., has been selected as architect for the proposed building, to be known as the Peterson Memorial Building, to be erected by the Troy Orphan Asylum, at the corner of Pawling and Spring Aves., Troy. The building is to be 40 x 85 ft. and will be three stories high and of fireproof construction. The material used will be hard red brick similar to the main building, with Longmeadow stone trimmings. The first floor of the new building is to be fitted up with blacksmith shops, woodturning and carpenter shops for the training of boys. The second floor will be devoted to a model kitchen, dining-room, sewing-room and other fittings for the teaching of domestic science, and the third floor will be used for an auditorium. It is expected the building will cost $50,000.

NEWARK, N. J.—A building has been planned by George B. Post & Sons, 347 Fifth Ave., New York, for the Y. W. C. A., of Newark. The building, which is to cost $300,000, is to be erected on a site at 562 Broad St. It is to be eight stories in height and will occupy a plot 60 x 163 ft. Harvard brick and Denver marble will be used in the exterior construction. There will be three entrances from the street, the central one leading into a foyer. There is to be a roof garden and a gymnasium with every apparatus for development of strength.

NEWARK, N. J.—Contracts entailing the expenditure of $352,239 were awarded at a special meeting, held on Feb. 7, of the Board of Education for the erection of the proposed Central Commercial and Manual Training High School at High, New and Summit Sts., according to local press reports.

The Board was limited to the expenditure of $800,000. Prior to the regular meeting the Building Committee held a session and then reported in favor of the following as the successful bidders:

General construction, GLEN ENGINEERING & CONSTRUCTION CO., 156 Fifth Ave., New York, $377,448; iron and steel construction, HEDDEN CONSTRUCTION CO., 1 Madison Ave., New York, N. Y., $77,711; plumbing, JAEHNIG & PEOPLES, $22,222; heating and ventilating, BLAKE & WILLIAMS, $50,848; electrical equipment, ELECTRICAL MOTOR & EQUIPMENT CO., $19,449; elevator, OTIS ELEVATOR CO., $2,884; vacuum cleaners, CONNERSVILLE BLOWER CO., $1,677.50.

PATERSON, N. J.—We are officially advised that the contract for the construction of the 4-story and basement apartment house to be erected at the corner of Clark and Ward Sts., Paterson, N. J., by Isaac Wrubel of Middletown, Conn., has been let to FRANK B. GILBRETH, INC., 60 Broadway, New York. The building will contain three houses of 40 apartments. William D. Johnson, Inc., 26 State St., Hartford, Conn., is Arch. The buildings will be constructed of concrete foundations, with brick and stone walls of ornamental design, will have tar and gravel roofing, and will have modern plumbing, electric wiring, steam heating, fire escapes, etc.

ERIE, PA.—Plans are being prepared for the Board of Education, W. J. Flynn, Secy., for a 24-room school house, 90 x 150 ft., with three stories and basement. Estimated cost, $180,000. The school is to be built at 21st and Sassafras Sts.

PITTSBURG, PA.—George H. Bonner and W. H. Rickerbach, who are the purchasers of the Frank Trochia property on Kelly St. in the Homewood Ave. district, have plans completed for the erection of 40 brick houses at a cost of about $200,000. Twenty of the houses will front on Kelly St., with the same number in the rear facing a paved areaway. The houses will be of different designs.

The Trustees of the Western Theological Seminary of the Presbyterian Church are receiving bids for the erection of a large brick dormitory for the seminary, which is estimated to cost $100,000. The building is to be located on Ridge Ave., near Grant St. North Side, and work will be commenced on it as soon as weather conditions in the spring will permit.

The Neighborhood Men's Bible Class of the North Side, an organization with a membership of 800, will build a home at a cost of $75,000.

PHILADELPHIA, PA.—The H. B. Deal Co., 1112 Chestnut St., Philadelphia, has the contract for the Methodist Episcopal Church, to be built in Olney, at a cost of about $80,000.

J. Franklin Moss, 58th St. and Girard Ave., will begin work on an operation of 140 dwellings at 56th St. and Baltimore Ave., soon. He is taking sub-estimates for the work. The cost will be about $200,000.

Paul J. Bahn will build 21 2-story houses, each 15 x 42 ft. on Gray's Lane, west of 63d St., and 24 of the same size on Elm Ave., west of 63d St., to cost about $100,000.

W. Bleddyn Powell, City Arch., City Hall, is preparing plans for a firehouse to be erected at Third and Race Sts., to cost about $50,000, and for a police station at 28th and Oxford Sts.

Peter Kuhn is preparing plans for 23 houses to be built at Franklin and Butler Sts. by James Brannagan.

WASHINGTON, D. C.—Bids were received as follows on Feb. 7, by the Commissioners of the District of Columbia, for alterations and additions to the Western High School, Washington: W. E. Mooney, Lenman Bldg., Washington, $118,695; deductions (a) $7,300; (b) $2,283; (c) $1,800; (d) $21,715; (e) $1,400. Gormley-Poynton Co., Calhoun Bldg., Washington, $110,000; (a) $5,600; (b) $3,300; (c) $900; (d) $20,000; (e) $350. Thomas H. Melton, 621 F St., N. W., Washington, $106,300; (a) $4,900; (b) $2,900; (c) $1,900; (d) $25,000; (e) $1,400. W. H. McCray, Bond Bldg., Washington, $107,000; (a) $5,788; (b) $1,900; (c) $2,300; (d) $22,000; (e) $1,450.

WASHINGTON, D. C.—Washington, Baltimore & Annapolis Electric Ry. Co., Washington, is preparing plans to erect a 2-story brick and reinforced concrete terminal station on West Lombard St., Washington. The dimensions of the structure will be 80 x 170 ft. The lower floor will be divided into two sections, one for freight and the other for cars. The building will contain offices, repair shop and sand and track pits.

WASHINGTON, D. C.—Bids received as follows on Feb. 8, by the Commissioners of the District of Columbia, Washington, for the construction of Engine House No. 2: Page Construction Co., Hibbs Bldg., $53,000; alternate bids: (a) deduct $800, (b) add $600, (c) deduct $100, (d) deduct $900. J. M. Dunn, Anacostia, $42,160; (b) add $800, (d) deduct $550. George E. Wyne, Munsey Bldg., $42,000; (a) deduct $800, (b) add $500, (d) deduct $200. W. H. McCray, Bond Bldg., $41,800; (a) deduct $825, (b) add $150, (c) deduct $125, (d) deduct $885. Burgess & Parsons, 612 13th St., N. W., $45,195; (a) deduct $800, (d) deduct $250. W. E. Mooney, Lenman Bldg., $43,976; (a) deduct $800, (c) deduct $130, (d) deduct $800. Thomas H. Melton, 621 F St., N. W., $39,000; (a) deduct $600, (b) add $250, (c) deduct $150, (d) deduct $500. Boyle-Robertson Construction Co., Union Trust Bldg., $41,331; (a) deduct $536, (b) add $350, (c) deduct $100, (d) deduct $900. All bidders of Washington.

WASHINGTON, D. C.—We are officially advised that the negotiations for the purchase of the property of the Academy of Visitation, on the east side of Connecticut Ave., between L and De Sales Sts., have been completed. The land occupies an entire square bounded by Connecticut Ave., De Sales, L and 17th Sts., and comprises 114,679 sq. ft. The greatest frontage is on 17th St., where it extends for a distance of 455 ft., while it fronts on Connecticut Ave., 324 ft. It is the intention of the purchasers, whose names are not given, to organize a company at once for the purpose of holding the property, and also for improving it. The plans for the proposed building have been prepared by Goldwin, Starrett & Van Vleck, Archs., 103 Park Ave., New York, and the contract for the construction has been let to the THOMPSON-STARRETT CO., 49 Wall St., New York.

*RICHMOND, VA.—Bids are asked by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., until 3 p. m., March 17, for the construction of the U. S. post-office, court-house and custom-house at Richmond.

NORFOLK, VA.—An agreement has been concluded between the Norfolk & Western and Norfolk & Southern railway companies under which an 8-story office building and union passenger station, for the joint use of these companies and the Virginia Ry. Co., shall be built in Norfolk upon property of the Virginian Ry. Co. at a cost of $1,000,000.

JACKSON, TENN.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 11, for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and standard clock system), of the U. S. post-office and court-house at Jackson, Tenn.

NASHVILLE, TENN.—It is intended by the Board of Education to erect a high school in Nashville, to cost $300,000. The Finance Committee of the Council has authorized the sale of the High School bonds on March 15, and work on tearing down the old building will be started probably by the middle of April.

MANSFIELD, OHIO.—Plans are under way by W. P. Ginter, Arcade Bldg., Akron, for a $75,000 church for St. Peter's (Roman Catholic) parish. The exterior will be of cut stone, the interior will have hardwood finish and an electric plant will be installed.

COLUMBUS, OHIO.—J. Upton Gribben, Columbus Savings & Trust Bldg., has been selected as architect for an addition to the Tenth Ave. M. E. Church. Prof. Homer Price, Ohio State University, is Chn. of Bldg. Com. Bids will be invited soon.

Samuel Esswein is having preliminary plans prepared for a 10-story office building to be erected on the northwest corner of Rich and High Sts. The work will be done during the coming summer.

D. Reiber & Sons, Archs., New First National Bank Bldg., announce that bids for the school buildings to be erected on Hyle Ave. and West Broad St., will be delayed until the plans and specifications for the school building, to be erected on Reeb Ave., are completed and the three buildings will be advertised at the same time.

Julian & Julian are preparing plans for a 3-story business block, 60 x 140 ft., to be erected on High St. near Buttles Ave.

At a special meeting of the stockholders of the Ohio National Bank, the action of the Board of Directors in closing a perpetual lease for the southwest corner of Town and High Sts. was approved and plans for the erection of a modern banking building were discussed. A committee consisting of John Siebert, Henry Richter, Henry Maetzel, and L. F. Kiesewetter was named to have charge of the construction. Bids have been invited for the work of razing the present structures and in a short time bids will be invited for the bank building.

WAPAKONETA, OHIO.—The contract for the construction of a Roman Catholic church here has been awarded by the Building Committee of St. Joseph's Parish to JOHN M. HEMMERT, of this city, at his bid of $53,440. There were seven other bids submitted. The work of wrecking the old building will begin as soon as the weather will permit.

CLEVELAND, OHIO.—We are officially advised that the THOMPSON-STARRETT CO., 49 Wall St., New York, has been awarded the contract for the proposed addition to the Rockefeller Building, in Cleveland. The addition will be erected from the plans by Knox & Elliot, Archs., Rockefeller Bldg., Cleveland, and will cost approximately $500,000. The building will be 16 stories high and fireproof, the exterior being practically a duplicate of the present Rockefeller Building.

FORT WAYNE, IND.—The City Council has taken steps toward the construction of a municipal hospital building.

INDIANAPOLIS, IND.—The Mine Workers Association of America has taken steps to erect an office building in this city.

The Board of Public Works is preparing to ask for bids for the construction of an addition to the City Hospital and also a building for a pathological laboratory. Estimated cost, $100,000.

The Bobbs-Merrill Co., 9 West Washington St., has ordered plans on which bids will be received for the construction of a 7-story business building on corner Vermont and Meridan Sts. Foltz & Parker are Archs., Indiana Pythian Bldg.

INDIANAPOLIS, IND.—Thomas Taggart and Crawford Fairbanks, are preparing to raze the new Denison Hotel structure and build a 14-story hotel on the site. The estimated cost is $1,000,000.

Grossart & Gale, 225 South Meridian St., have purchased a site on Pennsylvania St. on which to build a 4-story fireproof wholesale house. Bids will be in order as soon as plans can be made.

Plans and estimates have been made for the construction of a fireproof hotel in Broad Ripple Park, a summer resort, seven miles north of Indianapolis. The building will be constructed of reinforced concrete and is estimated to cost $200,000. The building will be constructed by the Broad Ripple Bathing Beach Co., M. S. Huey, Pres.

INDIANAPOLIS, IND.—The School Board has decided to ask for bids for the construction of a school building on Woodside Ave. J. E. Cleland is Business Dir.

The School Board is considering the erection of a school building in Washington Boulevard and 38th St.; an addition to School No. 26, in Martindale Ave., and an addition to the Bell School in East 33d St. John E. Cleland is Business Dir.

The Trustees of the Madison Insane Hospital will receive bids at the Governor's office for the construction of a number of cottages in connection with the main hospital building, as soon as plans are completed.

The Central Union Telephone Co. is preparing to ask for bids for constructing an addition to the Woodruff exchange building.

The Sullivan & Geiger Co., George R. Sullivan, Pres., has ordered plans on which bids will be asked for the construction of a 3-story business building and an adjoining warehouse on Madison Ave. The building will be of brick and stone. R. P. Daggett & Co., Lemcke Bldg., are Archs.

RICHMOND, IND.—The Commissioners of Wayne County have approved plans for the erection of an insane hospital on the cottage plan. Bids will be in order soon. W. S. Kaufman, Kelly-Hutchinson Block, Richmond, is Arch.

VINCENNES, IND.—The local lodges of the Nineteenth District, Knights of Pythias, have planned to build in this city a Pythian home for aged and infirm members.

SCOTTSBURG, IND.—The Indianapolis & Louisville Traction Co. has awarded a contract for the construction of a passenger and freight station at Scottsburg to JOHN T. WILEY & SON, of Louisville, Ky.

SEYMOUR, IND.—The School Board has decided to ask for bids for the erection of a high school building.

BERNE, IND.—The Trustees of the Mennonite Church will receive bids after Feb. 15 for the construction of a church, to cost about $50,000.

EVANSVILLE, IND.—Bids will be asked by Journal-News Publishing Co. for the construction of a building as soon as the insurance is adjusted and the ruins of the old plant destroyed by fire are cleared away. The new plant will cost $125,000.

SHELBYVILLE, IND.—The School Board, Dr. S. P. McCrea, Pres., is planning to build a 3-story high school building in the Industrial Addition.

SHELBYVILLE, IND.—The Ray Hotel Co. will ask for bids for remodeling and enlarging the Ray Hotel building as soon as plans are completed. Estimated cost, $70,000.

TERRE HAUTE, IND.—Plans are being made for the construction of an annex to the Wiley High School building. North Side High School building is also being considered by the School Board.

TERRE HAUTE, IND.—The Trustees of the Polytechnic Institute have ordered plans on which bids will be invited for the construction of two buildings.

CHICAGO, ILL.—Plans for the erection of an apartment building in Lake View have been made by Harry B. Neill, who has purchased a tract of vacant ground at the northwest corner of Kenmore and Ardmore Aves. The plot has a frontage of 100 ft. and a depth of 150 ft. Construction is to begin in the early spring. The building will cost approximately $75,000. It will contain 20 apartments.

It is stated that Jacob L. Kesner, The Fair, Chicago, will erect a building, 56 × 163 ft., 17 stories high, to cost $1,000,000. The building will be erected at the northwestern corner of Madison St. and Fifth Ave.

Plans for the spending of nearly $2,000,000 of this year's building fund of the Board of Education have been presented to the Buildings and Grounds Committee and adopted. The plans contemplate the erecting of eight new elementary buildings and additions to six old schools. The Committee has recommended that steps be taken for acquiring a site for a new high school at Stewart Ave. and 104th St. The new buildings are to cost not more than $165,000 each, according to present plans. Joseph Downey is Chn. The work on the six additions, it is estimated, will range in cost from $60,000 to $120,000. The new buildings, some of which have not been named, that are to be constructed this year are as follows:

Agassiz, Burke, Parkman, Park Manor, Waters, school at Hamline and Humboldt Aves., school at Sacramento and Berteau Aves. The schools that are to have additions are Jefferson, McLaren, Gladstone, Fulton, Holmes and Fiske.

MILWAUKEE, WIS.—H. Messmer & Sons, Archs., Pabst Theater Bldg., are completing plans and specifications for the proposed central fire station and fire department headquarters to be erected at Broadway and Martin St., at $150,000. Bids will be advertised for within a few weeks. Charles J. Poetsch is City Engr.; Thomas A. Clancy, Ch. of Fire Dept.

W. Carbys Zimmerman, Steinway Hall, Chicago, Ill., and Prof. C. R. Henderson, University of Chicago, are preparing a program of specifications for an architect's competition, to prepare plans for the proposed $250,000 Criminal Courts and Central Police Station building for city of Milwaukee, at Broadway and Oneida Sts. John T. Janssen is Ch. of Police; Charles J. Poetsch, City Engr.

WALES, WIS.—The Wisconsin State Board of Control, Madison, Wis., has awarded contract for shacks, bakery, superintendent's residence and infirmary at Wisconsin Tuberculosis Sanitarium, Wales, Waukesha County, Wis., to GEORGE R. KEACHIE, general contractor, Madison, Wis.

DES MOINES, IOWA.—We are officially advised that the Des Moines Club contemplates erecting a building this year, and as soon as the club is fully organized it will proceed with construction. Charles Hewitt, Des Moines, is Pres.

ST. PAUL, MINN.—Bids are being received by George Benz & Sons, 407 Jackson st., for the construction of a pressed brick and cut stone, fireproof hotel to be built at Exchange and Wabasha Sts., according to plans of Buechner & Orth, Archs., Manhattan Bldg. It will be 40 × 150 ft., with marble and tile work, and two elevators.

Bids are asked by the City and County Board of Control, N. P. Langford, Chn., until Feb. 24 for the construction and completion of the foundation for the new service and maintenance building at the City Hospital. Plans were drawn by C. H. Johnston, Manhattan Bldg., city. Cost, $130,000.

CROOKSTON, MINN.—Bids are asked by the State Board of Control, Charles Halvorson, St. Paul, Chn., until noon, Feb. 28, for the construction of a library, gymnasium, drill hall and administration building at the state experimental school at Crookston. Plans are being prepared by C. H. Johnston, Arch., Manhattan Bldg., St. Paul, for a 2-story pressed brick and cut stone fireproof structure, costing $40,000. The same board will take bids on the same date for the construction of the ladies' dormitory at Crookston, for which an appropriation of $25,000 has been made.

*FORT D. A. RUSSELL, WYO.—Bids are asked until 9:30 a. m., March 2, by Capt. V. K. Hart, Acting Q. M., Keefe Bldg., Cheyenne, Wyo., for the construction, etc., of the following public buildings at Fort D. A. Russell, Wyoming, viz.: (1) For construction, plumbing, heating, electric wiring and electric fixtures, for two administration buildings, one guard house, one set of quarters for four officers; (2) for construction, plumbing, electric wiring and electric fixtures, for one stable, quartermaster's Dept.; (3) for construction and plumbing, for one vehicle shed; (4) for construction only of one storehouse for powder, one storehouse for ammunition, and one ice house.

FORT MACKENZIE, WYO.—Bids are asked until 2 p. m., March 7, by the Constructing Q. M., at Fort Mackenzie, for construction, plumbing and electric wiring of a brick stable for 50 horses, Plan 139-L.

SPRINGFIELD, MO.—Within the next two or three weeks the Greene County Court will ask bids for the construction of a courthouse to cost approximately $500,000. The present court-house recently was sold for $50,000. The excavation for the now courthouse has been completed, and the concrete foundation is nearly finished. The work has been done by Greene County prisoners.

ST. LOUIS, MO.—The FENTON CONSTRUCTION CO., of Knoxville, Tenn., has been awarded the contract to finish the interior of the St. Louis public library with Tennessee pink marble. The estimated cost is $100,000. The general contractor on the building is the JOHN PEIRCE CO., 90 West St., New York.

HOUSTON, TEX.—The contract for the construction of the Riesner 3-story building and 5-story annex on the site of the recent fire at the foot of Washington St., has been awarded by H. C. Cooke & Co., Archs., Opera House Bldg., Houston, to W. H. YOUNG, who will begin breaking ground for the annex and tearing away the damaged portions of the old building at once. The Riesner building will occupy the lot on Washington St. between the plants of the Magnolia Brewery and the Southwestern Paper Co.

DENVER, COLO.—We are officially advised that A. C. Foster is having plans prepared for a 12-story fireproof steel and concrete building, 75 x 125 ft., to cost $450,000. William E. & Arthur A. Fisher, Railway Exchange Bldg., Denver, are Archs.

ALBUQUERQUE, N. MEX.—J. L. La Briere, has completed plans for a 4-story hotel to be erected on Second St. for Joseph Barnett. It will be constructed of brick and concrete. Estimated cost, $50,000. Work is to begin April 1.

SEATTLE, WASH.—Lundstrom & Sundberg, Archs., Epler Block, are preparing sketches for an apartment house to be erected on Summit Ave., north of Denny Way, during the coming summer. Cost, $70,000.

MEDICAL LAKE, WASH.—Plans for improvements at the Medical Lake Hospital for the Insane, will call for expenditure of $80,000. A preliminary sketch of the building has been made by John K. Dow, Arch., Empire State Bldg., Spokane, Wash., and plans have been submitted to Governor M. E. Hay for his approval. Contract will be let about April 1.

BAKERSFIELD, CAL.—J. M. Laffell has prepared plans for R. F. Gregory for a 3-story building, 115 x 126 ft. Estimated cost, $58,000.

OCEANPARK, CAL.—Peter Haack, Oceanpark, is having plans prepared for a 3-story brick apartment house, to be erected on the ocean front, and to cost $50,000. Contract is to be awarded within 30 days.

LOS ANGELES, CAL.—The F. O. ENGSTROM CO., Fifth and Colyton Sts., has the contract to erect a 3-story brick store and office building, 140 × 100 ft., at Fourth and Winston Sts., at $61,434, for George Chaffey, A. M. Chaffey and Dr. West Hughes, owners. Parkinson & Bergstrom are Archs., Security Bldg. The plumbing and steam heating contract has been awarded to THOMAS HAVERTY & CO., 517 South Los Angeles St., at $5,310.

C. LEONARDT, H. W. Hellman Bldg., has the contract to erect a 4-story brick office building for the Co-Tenants Co. on Broadway near Sixth St. Amount, $49,500. Dennis & Farwell, Fay Bldg., are Archs.; Train & Williams, Exchange Bldg., Asso. Archs.

The contracts to erect the east buildings to be erected at Sixth and Mill Sts. by the Los Angeles Public Market Co. has been awarded at the office of Charles E. Shattuck, Arch., Mason Bldg., to the EUREKA PLAINING MILL CO. at their bid of $80,660. The building will be a 2-story and basement brick structure, 610 x 70 ft. The contract for the west building has not been signed yet, but probably will be awarded to the Barber-Bradley Construction Co. Some changes are to be made and their contract will amount to about $60,000.

LOS ANGELES, CAL.—Plans are being formulated by the officials of Bank of Southern California to erect a 10-story office building at a cost of $500,000 on a site of the bank at Broadway and Seventh Sts.

Morgan & Walls, Archs., 232 North Main St., are working on plans for a 6-story Class A mercantile building to be erected on Broadway for the George J. Birkel Music Co. It will be 40 x 150 ft., of heavy steel girder construction so as to dispense with columns.

SANTA MONICA, CAL.—A beach hotel to cost more than $50,000 will be built at Santa Monica by Carl Schader, Los Angeles, and associates. It will have a sloping location on Kensington Pl. and will extend from that thoroughfare to the beach. The building will have three stories in front and two in the rear. Construction will be begun in about 30 days. Plans are being prepared by J. W. Roberts, Douglas Bldg., Los Angeles.

OAKLAND, CAL.—The contract to build the Bankers' Hotel was awarded to PERCY J. WALKER, of Oakland, at a recent meeting of the Directors. George W. Reed, Atty., was instructed to draw up the papers at once. It is expected that the legal technicalities will be compiled with by the middle of the week, after which the building will be commenced.

SAN FRANCISCO, CAL.—Prager & Co. are about to erect a 3-story, Class A store building on the site of their present store, with frontages in Market, McAllister and Jones Sts., opposite the structure owned and occupied by the Hibernia Savings & Loan Society. The preliminary step has been taken by the issuance of a permit to build. In the permit the cost of construction is estimated at $125,000. The plans have been prepared by an architect and have been approved.

SAN FRANCISCO, CAL.—A building, six stories high, will be erected for the Raymond Realty Co. at the southeast corner of Bush St. and Chelsea Pl. from plans prepared by Alfred I. Coffey, Arch., Humboldt Bank Bldg. This will cost $60,000. The lot to be covered is 39 ft. in front and 79 ft. deep. The building exterior will be of pressed brick with stone trimmings. The structure will contain 36 apartments of two and three rooms each. There will be a marble vestibule. The mechanical appliances will include elevator, vacuum cleaning plant, electrical system, steam heating, etc.

The Church of the Advent has purchased a lot in the south line of Fell St., 137.6 ft. west of Franklin St., as the site for a church. The negotiations were conducted by Rhine & Co. for the church committee, consisting of Rev. C. N. Lathrop and John de Teller. The lot has a frontage of 87.6 ft. in Fell St. and extends 130 ft. to Hickory Ave. in the rear. The building will be of stone. Adjoining this there will be a frame building for the clergy.

Charles M. and Arthur F. Rousseau, Archs., Monadnock Bldg., report the following new work: 42 apartments of two and three rooms each, to be erected at the northwest corner of Pine and Leavenworth Sts. at an approximate cost of $58,000; 24 apartments of three, four and five rooms, to be erected on a lot in the south side of Washington St., 165 ft. west of Leavenworth St., for Mrs. G. McMillan, to cost $42,000; a 3-story brick and frame apartment house containing 38 rooms, to be erected at the southwest corner of California and Leavenworth Sts. for Arthur F. Brousseau, cost $26,000; a 3-story reinforced concrete building to be erected in the south side of Bush St., 100 ft. east of Hyde St., to cost $36,000; a 3-story brick and frame apartment building to contain 14 apartments of two and three rooms each, to be erected in the north side of Fell St., 192.6 ft. west of Laguna St., for Mrs. Marguerite McDonald, to cost $32,000; six apartment flats for T. E. Rulph, to be erected in the south side of Jackson St., 40 ft. west of Larkin St., to cost $13,000; six flats of five rooms each, to be erected on a key lot situated in the south side of Vallejo St., 100 ft. east of Polk St., to cost $15,000.

SAN FRANCISCO, CAL.—A 6-story and basement store building will be erected for M. H. de Young in the south line of Geary St., between Stockton and Powell Sts., designs for which were prepared by L. B. Dutton, Arch., Chronicle Bldg. The property has been leased to the furniture firm of Bars Bros. for a period of ten years for approximately $200,000.

BERKELEY, CAL.—Bids are asked until Feb. 15 by the Trustees of the Y. M. C. A. for constructing a 4-story reinforced-concrete Y. M. C. A. building, to have concrete walls and floors and wooden studs. It will be 70 × 135 ft. and will cost $90,000; equipment, $15,000. Furnishings for gymnasiums, lockers, social rooms and 50 dormitories will be required. B. G. McDougall, Sheldon Bldg., San Francisco, Cal., is Arch.; F. A. Jackson is Secy.

LOS ANGELES, CAL.—The bid of J. V. McNeal, at $90,783, was the lowest of seven submitted recently to the Board of Education for the construction of the new art building at Polytechnic High School.

PHOENIX, ARIZ.—An $800,0[illegible] be erected in Phoenix, on the b[illegible] by third, fourth, and East Wa[illegible] A local stock company, incl[illegible] Thalheimer, Louis Killun and [illegible] Baxter, are the promoters of th[illegible]

MONTREAL, QUE.—The Ca[illegible] mental store, in the downtown [illegible] trict, has been purchased by a [illegible] which Rodolphe Forget, M. P., [illegible] for the sum of $650,000. A com[illegible] formed which will remodel the [illegible] a hotel to be called the Royal [illegible] pending about $175,000 on the [illegible] $100,000 in furnishing. Frank J[illegible] Pres. of Freeman's Limited, is [illegible]

FORT WILLIAM, ONT.—A th[illegible] $75,000 will be built at Fort [illegible] John Whalen, proprietor of the [illegible] Port Arthur, Ont.

A $100,000 union station is to [illegible] at Fort William, by the Canad[illegible] and Grand Trunk Pacific railway[illegible] vation work, piling, and concre[illegible] for which have been completed. [illegible] ing will have a frontage of 272 [illegible] part will be three stories high [illegible] awning, carried on steel trusses, [illegible] over the platform.

VANCOUVER, B. C.—It is st[illegible] that William Morris, of New York, [illegible] ested in the proposed theater to [illegible] at corner of Pender and Abbott St[illegible]

VICTORIA, B. C.—The Domi[illegible] Trust Co. is negotiating with the City [illegible] build a 6-story office structure [illegible] the post-office.

WATER-SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

LYNN, MASS.—The Water Board and the Committee on Water Supply will recommend mechanical filtration for the city. Estimated cost, $200,000. George I. Leland is City Engr.

*NEW YORK, N. Y.—We are officially advised that GEORGE W. JACKSON, INC., 46 Wall St., New York, has been awarded contract by the Board of Water Supply for constructing the Yonkers siphon, about two miles long. Contract 54, at about $1,476,[illegible]. Bids were opened on Jan. 25 and list of bidders noted on Jan. 27.

SODUS, N. Y.—A franchise for installing a system of water-works in this village has been granted by the Town Board to W. M. Wilcox, of Lowville, N. Y.

PHILADELPHIA, PA.—The Department of Supplies on Jan. 28 awarded contract to the LA FRANCE MFG. CO., 127 North Front St., Philadelphia, for the construction of a water tower to be used in connection with the new high-pressure fire service of the northeast section, at $7,000.

NORFOLK, VA.—The Norfolk County Water-Works Co. will spend about $250,000 in improving the water system and extending mains. W. D. Pender is Representative, Norfolk.

ROANOKE, VA.—The Norfolk & Western Ry., C. S. Churchill, Ch. Engr., will extend pipe line from North Fork to Vivian, N. C. The water will be pumped from a reservoir in the Bluestone section and will supply a number of new reservoirs of 400,000 gallons capacity to be built at intervals of two miles between the two places.

WAYNESBORO, VA.—The city contemplates the erection of a 100,000-gallon water tank or stand-pipe of reinforced concrete or steel construction. J. W. Ellison is interested.

WHEELING, W. VA.—Bids will be received until Feb. 14, readvertisement, by the Board of Control for the construction at the Wheeling water-works pumping station, of a new pump house, pumping pit, river intake line and crane runways. J. R. Kommer is Engr., 1112 House Bldg., Pittsburg, Pa.

BIRMINGHAM, ALA.—The city will improve the water-works at North Birmingham. Frank P. O'Brien is Mayor.

JACKSON, MISS.—The city has voted $95,000 of bonds for water-works improvements. Hamilton Johnson is Mgr. W.-Wks.

BATON ROUGE, LA.—Baton Rouge Water Co. has decided to issue $150,000 of bonds.

KNOXVILLE, TENN.—The Knoxville Water Commission has instructed E. N. Chisholm, Supt. of Construction, to prepare plans for the enlargement of the sedimentation basin located at the filter plant on Reservoir Hill.

FRANKLIN, OHIO.—The Board of Public Affairs is considering laying a 12-in. water main under the bed of the Miami River.

FLINT, MICH.—The LAIDLAW-DUNN GORDON CO., 115 Broadway, New York, has secured contract for the proposed pump here.

*BLOOMINGTON, ILL.—Bids were received by the city on Jan. 25 for the remodeling of its water-works plant, including the reconstruction and remodeling of buildings. One 6,000,000 or two 4,000,000-gallon pumps, a battery of boilers, stack, main connections and all other work to be done and machinery and appliances to be furnished in and for the said work. Contracts have been awarded as follows: For one 6,000,000-gallon pump (Corliss) and engine to the ALLIS-CHALMERS CO., of Milwaukee, Wis., at $31,000; for smoke stack to the HEINE CHIMNEY CO., 115 Adams St., Chicago, at $3,751; for the construction of the new building to GRAY & BOWMAN, of Bloomington, at $13,500; for outside piping to FRANK SULLIVAN, of Bloomington, at $6,359; for tunnel, hydraulic lift, industrial track bunkers, elevated track and grading to same, to GRAY & BOWMAN, at $10,474.

ROCK ISLAND, ILL.—Bids are asked until 5 p. m., March 7, by M. T. Rudgen, City Clk., for Holly pump, now at pumping station, capacity 3,000,000 gallons in 24 hours. Estimated weight, 75 tons.

MINNEAPOLIS, MINN.—We are officially advised that the City Council has awarded contracts for water-works materials as fol-

lows: To RENSSELAER MFG. CO., 98 Jackson Boulevard, Chicago, Ill., for 150 valves, at $11 each; 12 valves, 8-in., $17; 18 valves, 12-in., $31.50; to FLORENCE IRON WORKS, Philadelphia, Pa., for 175 D. S. Mathews fire hydrants, at $42.75 each.

ELLENDALE, N. DAK.—Bids will be received until Feb. 15 by John Kinz, City Audr., for laying a 6-in. water main in Main St.

McGEHEE, ARK.—The city has awarded contract to R. Q. WOODWARD, Pine Bluff, Ark., for constructing water and electric light plant, at about $25,000.

LUFKIN, TEX.—The city proposes to lay about miles of 6-in. mains. Estimated cost, $[illegible].

WAXAHACHIE, TEX.—The city will improve its water-works system and will construct new or six lines from 800 to 2,800 ft.

BRYAN, TEX.—Shaw & Fountain, Consulting Engrs., Houston, Tex., will prepare plans and specifications for water-works and electric light plant.

FORT SAM HOUSTON, TEX.—See item under Manufacturing Plants.

HENNESSEY, OKLA.—The Board of Trustees will spend $7,000 for the extension of water mains. Robert W. Wylie is Chn.

LAWTON, OKLA.—The City Council has instructed Z. M. Scifres, City Engr., to prepare plans and blueprints for a reservoir and watershed on Medicine Creek.

WEATHERFORD, OKLA.—The city has awarded contract to KERBY, MAYFIELD & SHAW, Lawton, for constructing water-works extension. Estimated cost, $25,000. J. L. O'Hearn, Clinton, Ohio, is Consulting Engr.

COALGATE, OKLA.—The city has voted $30,000 of bonds for the extension of the water-works.

GREELEY, COLO.—More than $43,000 will be spent by Charles Woodward, of Prairie City, Iowa, in enlarging and constructing ditches and reservoirs in the southeastern part of the county. The dam of the Little Dry creek reservoir will be 38 ft. high. The capacity will be 828,808,350 cu. ft. and the cost will be $25,000. The natural flow, the seep and flood waters of Little Dry Creek will be utilized. The J. & S. reservoir will have a dam 19 ft. high and a capacity of 37,712,210 cu. ft. Cost, $14,000. An intake ditch to the J. & S. reservoir will cost $4,000. The maps and statements of these ditches and reservoirs were filed in the County Court on Jan. 26.

PORTALES, N. MEX.—Contract for the construction of the water-works, electric light and sewer system here has been let to S. J. MATHEWS, of Kansas City.

PORT BAYARD, N. MEX.—Bids are asked until 11 a. m., Feb. 21, by Capt. S. P. Vestel, Constructing Q. M., U. S. A., for the complete construction of extension of post water main with installation of fire plug.

TACOMA, WASH.—The KEASEL CONSTRUCTION CO., of Tacoma, on Jan. 17 was awarded contract for laying water mains here at $44,773.

VALE, ORE.—The City Council has engaged Parrott, Cottrel & Parrott, of Baker City, Ore., to make surveys, prepare plans and estimate the cost of construction of a water supply system and sewerage system.

CENTRAL POINT, ORE.—Bids will be received by T. M. Jones, Town Recdr., until 5 p. m., Feb. 15, for constructing water-works, work to consist of hauling and laying steel pipe, valves, valve boxes, hydrants, special castings, pump, motor and water tower for a distributing pipe system, all labor and material to be furnished by the contractor. Plans may be seen and specifications obtained at the office at Central Point, or at the office of Osgood & Cummings, Civil Engrs., Medford, Ore.

MODESTO, CAL.—Bids will be received until Feb. 18 by the Board of Directors of the Modesto Irrigation District, C. S. Abbott, Secy., for constructing the outlet gates to the reservoir of said district, known as the Dallas and Warner Lake reservoir.

WILLOWS, CAL.—Bids will be received by the Sacramento Valley Irrigation Co., Fentress Hill, Mgr., until 4 p. m., Feb. 15 for the excavation of 1,500,000 yds. of earth in the construction of canals and laterals on the Sacramento Valley Irrigation project. Bids will be received for one or more divisions of about 50,000 to 100,000 yds. each.

HANFORD, CAL.—The People's Ditch Co., of Hanford, has had plans prepared for the construction of a concrete headgate, 88 ft. long, eight openings each 5 ft. wide. Estimated cost, $5,000.

PHOENIX, ARIZ.—Bids will be received by Robert A. Craig, Supt. W.-Wks., until March 14 for a 5,000,000-gallon pumping engine.

SALT LAKE CITY, UTAH.—Bids will be received until Feb. 18 by the Board Public Works for constructing all water mains that have been or may be ordered by the City Council to Nov. 30, 1910, and for constructing a reinforced-concrete conduit in Parley's Creek at 12th South St. H. G. McMillan is Chn.

KAYSVILLE, UTAH.—Bids are asked until Feb. 11 by George Swan, Kaysville, for furnishing the machine-banded wood-stave pipe for the water-works system.

OTTAWA, ONT.—Bids will be received until Feb. 15 by the Chairman of the Water Works Committee for furnishing and delivering 3,000 lin. ft. of 42-in. steel intake pipe. Newton J. Ker is City Engr.

SASKATOON, SASK.—Bids will be received until Feb. 14 by J. H. Trusdale, City Clk., for materials required for house, sewer and water-works service connections, including sewer pipe, galvanized iron pipe, lead pipe, brass fittings, service boxes and water meters. George T. Clark is City Engr.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

SYRACUSE, N. Y.—Bids have been received as follows by the Board of Contract and Supply for sewer work: Brick, concrete or tile sewers in Roby, Helen, Elsner, Oak, Dunlap, Dwight, Dewitt and other streets: James Swift and Philip Thomas, brick, $12,016; concrete, $11,670; tile, $12,003. John Davin, Jr., brick, $10,303; concrete, $10,952; tile, $10,952. Albert Gaffey, brick, $10,978; same on concrete or tile. Samuel Bond, brick, $11,377; same on concrete and tile. Nicholas Marnell, brick, $12,037; same on concrete and tile; Charles T. Hookway, brick, $11,488; concrete, $10,795; tile, $10,500. John Young, brick, $11,220; concrete, the same; tile, $12,355. Frank S. Sposato, brick, $12,227; concrete, $12,270; tile, $12,270. 15-in. pipe sewer in Avery Ave.: M. J. Gleason, $2,999; Frank S. Sposato, $3,801; Anthony Sposato, $3,696; James Swift, $3,466; Nicholas Marnell, $3,638; Alexander Barr, $3,318; J. W. Davin, Jr., $3,362; Albert Gaffey, $3,301; C. T. Hookway, $3,397; Philip Thomas, $3,422. 18-in. pipe sewer in Greenway Ave. and 15-in. pipe sewer in Vann and Hawley Aves.: M. J. Gleason, $3,120; Albert Gaffey, $3,505; Frank S. Sposato, $4,090; John W. Davin, Jr., $3,460; Nicholas Marnell, $3,746; Samuel Bond, $3,687; James Swift, $3,595; T. Hookway, $3,341; Philip Thomas, $3,544.

*SUMMIT, N. J.—We are officially advised that J. C. SCHRADE, of Williamsport, Pa., has been awarded contract at $7,871 by the Common Council for the construction of 1,940 lin. ft. of 8 and 10-in. vitrified pipe sewers in Hill Crest and Summit Aves. John S. Stiger is City Engr. Bids were opened on Feb. 1.

PHILADELPHIA, PA.—The Survey Committee of Councils on Feb. 1 authorized the construction of about 60 branch sewers. Estimated cost, $100,000.

CHARLESTON, S. C.—GUILD & CO., Chattanooga, Tenn., have been awarded contract by the city at $28,000 and $81,000 for the construction of sewers in two sections of city, Contract A, three miles of pipe sewers, 18-in. to 2-in. diameter, with appurtenances, and such 6-in. house connections as ordered; and Contract B, 8½ miles of pipe sewers, 18-in. to 8-in. diameter, with appurtenances, and such 6-in. house connections as ordered. Bids were opened on Jan. 24. J. H. Dingle is City Eng.

BIRMINGHAM, ALA.—The city contemplates awarding contract during the summer for the construction of storm sewers. Estimated cost, $300,000. Maury Nicholson is City Eng.

MONTGOMERY, ALA.—The city has awarded contract at $9,076 to JAMES HOGSON of Montgomery for constructing 5,900 ft. of sewer in O'Connelly and Thurman Sts. Gaston Hunter is Mayor.

ANNISTON, ALA.—McPOLAND & O'GARA of Birmingham have been awarded contract at $9,175, for the construction of a sanitary sewer here. Bids were opened on Jan. 26. H. C. Allen is City Engr.

JACKSON, MISS.—The city has voted $10,000 for extending the sanitary sewer system and $5,000 for storm sewers and bridges. A. C. Crowder is Mayor.

BELZONA, MISS.—The city will probably open bids about March 1 for the construction of four or five miles of sewers; cost, $25,000. Walter G. Kirkpatrick, Jackson, Miss., is Engr.

ALLIANCE, OHIO.—The City Council has passed ordinances for constructing sanitary sewers. Chas. O. Silver is Clk.

HAMMOND, IND.—The Board of Public Works has adopted plans and specifications for lowering the sewer in Condit St., from Hohman to Lyman Sts. Otto H. Duelke is City Clk.

EAST ST. LOUIS, ILL.—See item under Streets and Roads.

MASON CITY, IOWA.—Bids will be received by J. H. McCune, City Clk., about March 1 for one mile of vitrified pipe sewerage. F. P. Wilson is City Engr.

MUSCATINE, IOWA.—J. J. Ryan, City Engr., is preparing plans for sewers, covering about eight blocks in Kecklerville and across Ninth St. to Washington St.

GRINNELL, IOWA.—Bids will be received until Feb. 10 by A. C. Harriman, City Clk., for furnishing material and constructing vitrified salt-glazed storm sewers, requiring about 5,525 ft. of 24 to 10-in. sewer pipe and 15 manholes.

TRAER, IOWA.—Bids were opened on Jan. 28 by the city for the construction of a sewer system. Contract has been awarded to M. A. CAMERY, of Harlan, at the following prices: 600 ft. of 6-in. pipe, 30 cts.; 2,734 ft. 8-in., 62 cts.; 3,558 ft. 10-in., 85 cts.; 5,136 ft. 12-in., $1.10; 1,266 ft. 15-in., 75 cts.; 31 manholes, each, $36; four flush tanks, each, $80; 1 bulkhead, $25; and one septic tank, $1,875; total, $14,761. T. E. Stokes is City Clk.

DULUTH, MINN.—Plans and estimates have been completed for the Woodland sewer, to be about two miles in length, 4 ft. 6 ins. diameter, of concrete. Estimated cost about $138,352.

ALBERT LEA, MINN.—We are officially advised that plans are being prepared for a sewer system covering the entire western portion of the city. It is proposed to construct some 9,000 ft. of pipe sewers this season. William Barneck is City Engr.

ASHLEY, N. DAK.—Bids will be received by John F. George, Audr. McIntosh County, until 2 p. m., April 4, for furnishing twelve metal culverts of various sizes.

DEVILS LAKE, N. DAK.—L. W. SCHRUTH, Fargo, N. Dak., has been awarded contract for the construction of a ditch across the bay for sewer outlet. Ole Stratass is City Audr.

SEDALIA, MO.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are preparing plans for a sewage disposal plant, including septic tanks and filter beds.

CARTERVILLE, MO.—Bids will be received until 5 p. m., Feb. 17, by H. E. Moody, City Clk., for the construction of 9,050 ft. of district sewers. F. A. Funk is Engr.

GRANDFALLS, TEX.—Bids will be received by the Drainage Commissioners until 2 p. m., Feb. 23, for the construction of about twenty miles of drain ditches. A. H. Dunlap is Engr.

ARDMORE, OKLA.—Bids are asked by the Mayor until noon, Feb. 15, for the extension of the present sewer system. G. H. Bruce is City Clk.

WEATHERFORD, OKLA.—The city has awarded contract to MARSHALL BROS., Los Angeles, Col., for constructing sewers. Estimated cost, $33,000.

OKLAHOMA CITY, OKLA.—H. B. Derr is the lowest bidder at $28,000 for the construction of a sanitary lateral sewer in Central Park and Rossman Additions, and at $6,800 for sanitary lateral sewer in Putnam Heights Addition.

*FORT SILL, OKLA.—Bids will be received by Capt. David L. Stone, Constructing Q. M., U. S. A., until 10 a. m., March 7, for the construction of sewerage system and a drainage system here.

VANCOUVER BARRACKS (VANCOUVER POST-OFFICE), WASH.—Bids are asked until 11 a. m., Feb. 25, by the Constructing Quartermaster, U. S. A., for the construction of a storm sewer, catch basins, manholes, etc.

WENATCHEE, WASH.—The City Council on Jan. 26 passed a resolution providing for the construction of sixteen miles of sewers. Estimated cost, $250,000.

VALE, ORE.—See item under Water Supply—Irrigation.

OAKLAND, CAL.—JOHN SORENSEN has been awarded contract for the construction of a sewer in 20th St., from Market St. to Curtis St., of standard, salt-glazed, vitrified, ironstone sewer pipe, at 85 cts. per lin. ft., for furnishing and laying 8-in. pipe, and manholes $55 each.

ROSEVILLE, CAL.—The city proposes to construct vitrified pipe sewers at a cost of $35,000. U. S. Marshall, of Roseville, is Engr.

SANTA CLARA, CAL.—M. A. ELFTMAN, of San Mateo, Cal., has been awarded contract at $15,544, for the construction of sewers and purifying plant. C. E. Moore is City Engr.

EAST SAN JOSE, CAL.—JOHN MC. REYNOLDS, of San Jose, has been awarded contract for the construction of East San Jose sewer system at $[illegible],000.

PHOENIX, ARIZ.—Plans of Olmsted & Gillelen, Wright & Collender Bldg., Los Angeles, Cal., have been adopted by City Council for sewer system here.

PROVO, UTAH.—THE JAMES KENNEDY CONSTRUCTION CO., of Salt Lake City, Utah, has been awarded contract by the City Council for sewer construction here at $90,000.

SASKATOON, SASK.—See item under Water Supply—Irrigation.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids were received as follows on Feb. 8 by William H. Edwards, Comr. St. Cleaning, for the removal of snow in the Boroughs of Brooklyn, Manhattan and The Bronx: (a) Form 1; (b) Form 2; Brooklyn: Newman & Holmes (a) 49 cts., 12 cts., (b) 54 cts.; William Bradley, 68th St., North River, (a) 96 cts., 12 cts., (b) 96 cts.; Norton & Garman, (a) 52½ cts., 15 cts., (b) 59 cts. Borough of Manhattan: William Bradley, 68th St., North River, (a) 96 cts., 12 cts., (b) 96 cts.; C. De Marco, 3 Rutherford Pl., New York, (b) $1.10. Borough of The Bronx: C. De Marco, 3 Rutherford Pl., (b) $1.10; William Bradley, 68th St., North River, (a) 96 cts., 12 cts., (b) 96 cts.; P. J. Kane Contracting Co., 735 East 150th St., (a) 16 cts., (b) 45 cts.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

HARTFORD, CONN.—Plans for 31,000 ft. of proposed state road improvement in the town of Cheshire have ben received by the State Highway Commissioner from A. B. Hill, Engr.

FORT HAMILTON, (Brooklyn post-office), N. Y.—Bids are asked by the Constructing Q. M., until 11 a. m., March 3, for walks, drains, and grading in vicinity of new buildings at this post.

*CORNING, N. Y.—Bids are asked until 11 a. m., March 17, by W. C. Sleight, Clerk of Bd. of Pub. Wks., for building about one-half mile (12,000 sq. yds.) of brick pavement with cement curbs, and one-half mile (8,520 sq. yds.) of bituminous macadam pavement with cement curbs and gutters. R. H. Canfield is Supt. of Pub. Wks.

SYRACUSE, N. Y.—It is contemplated to pave a portion of Danforth St. Cost, $18,500, using macadam; $28,000 for sheet asphalt or vitrified block, and sandstone blocks, $39,000.

MAYS LANDING, N. J.—The contract for constructing gravel roads from Mays Landing to drawbridge at Tuckahoe has been awarded to A. K. HILLPOT, of Red Bank, N. J., at $24,943. E. D. Rightmire is County Engr., Atlantic City.

ATLANTIC CITY, N. J.—Bids are asked by the City Council until 8 p. m., Feb. 14, for 6,700 sq. yds. of bitulithic pavement laid under the patents of Warren Bros. Co., upon existing macadam foundation; 4,020 lin. ft. existing block gutters trimmed; 100 lin. ft. curbing reset; 36 lin. ft. heading stone removed and reset. E. D. Rightmire is City Engr.

WESTMINSTER, MD.—Bids are asked until noon, Feb. 14, by the Commissioners of Carroll County, Westminster, Md., for improving the public highway between New Windsor and Uniontown, known as the Uniontown Road. George W. Brown is Pres.; O. E. Dodrer is Clk.

BALTIMORE, MD.—The contract for macadamizing roads in Druid Hill and Carroll Parks has been awarded by the Board of Awards to D. M. ANDREWS CO., at $38,923 for Druid Hill Park and $13,706.41 for Carroll Park. JAMES J. LACY CO. has been awarded the contract for furnishing the Park Board with new bench legs.

WASHINGTON, D. C.—Bids were received as follows on Feb. 3, by the Commissioners of the District of Columbia for furnishing 800,000 (more or less) asphalt paving blocks for paving the Union Station Plaza and surrounding streets: Washington Asphalt Block & Tile Co., South Capitol and R Sts., Washington, $56 per 1,000 for 120-ton compression blocks; $59 for 180-ton.

NORFOLK, VA.—Bids will be received until Feb. 15 (extension of date from Feb. 8) by the Board of Control for regulating and repaving with smooth material parts of Granby and Chapel Sts. W. T. Brooke is City Engr.

GOLDSBORO, N. C.—We are officially advised that the Board of Aldermen of Goldsboro has awarded a contract to the ATLANTIC BITULITHIC CO., of Norfolk, Va., to pave its business and residence streets with bitulithic at a cost of $100,000.

RALEIGH, N. C.—Bids will be received by William W. Willson, City Clk., until March 30 (extension of date from Feb. 2) on 25,000 sq. yds. of brick pavement on Fayetteville and other streets. R. B. Seawell is City Engr.

*PENSACOLA, FLA.—Bids are asked until noon, March 10, by L. G. Aymard, Clerk Bd. of Pub. Wks., for constructing about 635,000 sq. ft. of concrete sidewalks. L. Earle Thornton is City Engr.

BIRMINGHAM, ALA.—Maury Nicholson, City Engr., advises us that the work on which bids were received Jan. 19 will be let to the SOUTHERN BITULITHIC CO. for bitulithic, and probably to F. B. JAMISON & CO., who are the lowest bidders for brick. The work on Thirteenth St. and Twelfth Ave. and Twelfth St. will be constructed of bituminous macadam. The contract has not yet been awarded. A detailed list of bids was given last week.

DOTHAN, ALA.—Bids are asked by the Mayor and Council of the City of Dothan until 8 p. m., March 7, for furnishing all materials and machinery, and laying approximately 14,000 sq. yds. of smooth pavement in and for the City of Dothan. Bids are asked on wood blocks, brick, bitulithic and asphalt pavements. Joe Baker is Mayor; R. W. Lisenby, Clerk; J. B. McCrary & Co., 1311 Empire Bldg., Atlanta, Ga., are Engrs.

CINCINNATI, OHIO.—Bids are asked by the Board of County Commissioners until noon, Feb. 25, for Specifications No. 3 for resurfacing Cincinnati Ave. from east to west corporation lines of North Bend, in Miami Township. Fred Dreihs is Clerk.

BOWLING GREEN, OHIO.—Bids are asked by F. W. Toan, County Audr., until 1 p. m., March 1, for grading, draining and macadamizing public highways in Wood County. E. F. Metzger is County Surv. Bowling Green.

HAMILTON, OHIO.—Bids will be received by the County Commissioners of Butler County until noon, Feb. 14, for grading and macadamizing two miles of road in Hanover Township under the provisions of the State Highway Law. Estimated cost, $19,358. Specifications, plans and profiles on file in the office of the County Commissioners, Hamilton, Ohio, and at the State Highway Department, Columbus, Ohio. James C. Wonders is State Highway Comr.

ASHLAND, OHIO.—Bids will be received by the Mayor and Village Council until noon, Feb. 14, for furnishing material, grading and paving Broad St. Morgan Minamyer is Mayor; T. Brindle, Engr.

EATON, OHIO.—City Council has decided to pave Main St. with tarvia, it is stated.

BEXLEY (Columbus post-office), OHIO.—Bids will be received until Feb. 26 by Joseph Maeder, Clk., Marion Township, Bexley Station, Columbus, for furnishing and delivering as ordered throughout the year 1910, 8,000 yds. of crushed limestone, size over a ¾-screen, to be delivered on South High St., Parsons Ave. and other streets. We are officially advised that all bids for the above work, received Jan. 29, were rejected by the Township Trustees.

TOLEDO, OHIO.—Bids will be received until Feb. 11 by the Board of Public Service for furnishing material and paving with either vitrified block, sheet asphalt, asphalt block or creosoted wood blocks Michigan St., requiring 2,560 sq. yds. F. Shane is Secy.

DAYTON, OHIO.—City Council has instructed F. J. Cellarius, City Engr., to prepare plans for paving Herman Ave., Keowee, Sixth and Valley Sts.

COLLINWOOD, OHIO.—Bids are asked by the Council of the Village of Collinwood until noon, Feb. 14, for paving Collamer St., from Sackett St. to Lake Shore Boulevard.

INDIANAPOLIS, IND.—J. HARRY ROBERTS has been awarded the contract for constructing the embankment for an extension of the Fall Creek Boulevard on the north and west side of Fall Creek from Central Ave. to 13th St. The contract price is $11,140. The contract was let by the Park Board.

TERRE HAUTE, IND.—The Commissioners of Vigo County will soon ask for bids for the construction of four miles of gravel road, 30 ft. wide, in Honey Creek Township.

FLINT, MICH.—J. T. LYNCH has been awarded the contract, at $42,012, for improving North Saginaw St. The work includes paving Saginaw St., from Harriet St. to the city limits, widening Saginaw St., from Wood to Harriet Sts., and the construction of sidewalks along the same thoroughfare. Nelsonville brick is to be used in the paving work. The bids for the work are as follows: Paving to city limits, $30,881; widening street, $7,086; sidewalk to city limits, $3,498; sidewalk, Wood to Harriet Sts., $547.

EAST. ST. LOUIS, ILL.—Bids will be received by the Board of Public Improvements until Feb. 16 for improving portions of Waverly Ave., 25th and 40th Sts., requiring 22,050 sq. yds. of vitrified brick pavement on a 6-in. concrete base; 10,750 lin. ft. 5 × 20-in. sandstone curb; 320 lin. ft. 10 and 12-in. vitrified clay pipe sewers; 130 lin. ft. 12-in. vitrified clay pipe sewer drains; a 50-ft. concrete steel span bridge, etc. W. J. Crocken is City Engr.

ROCK ISLAND, ILL.—Bids will be received until 9 a. m., Feb. 14, at the Mayor's office for paving 35th St. with brick from the south line of Fifth Ave. to the north line of Seventh Ave. George W. McCaskrin is Pres. Bd. Local Improvements.

PLATTEVILLE, WIS.—We are officially advised that W. G. Kirchoffer, of Madison, is preparing plans for paving Main St. with brick. Cost, $12,000. P. D. Hendershot, Jr., is City Clk.

SHEBOYGAN, WIS.—Bids will be received until Feb. 11 for 15,140 sq. yds. of brick paving on concrete foundation, 37,716 sq. yds. of macadam paving, 1,370 sq. yds. of cedar block paving, concrete foundation, and 17,916 lin. ft. of combination curb and gutter. C. U. Boley is City Engr.

GREEN BAY, WIS.—Bids are asked by the Committee on Streets and Bridges until 2 p. m., Feb. 17, to improve with either asphalt, vitrified brick block, tar macadam, sandstone block or Rudolph S. Blome Co. granitoid concrete or concrete, Walnut, West Walnut and Dousman Sts.

MANKATO, MINN.—The City Council has ordered the Board of Public Works to prepare plans and specifications for 20,000 sq. yds. of brick paving. J. R. Thompson is Pres. Bd. of Pub. Wks.

WICHITA, KAN.—Contracts for street improvements have been awarded as follows: With asphalt on Tenth, Cross, Ninth, Elm, Second, Third, Eleventh, Twelfth, Thirteenth, Fourteenth Sts. and Central Ave., to WARNER-QUINLAN PAVING CO., at $1.97 per sq. yd.; with asphalt portions of Lewis, Waterman, English, Seneca Sts. and Waco Ave. to CLEVELAND TRINIDAD ASPHALT PAVING CO., 420 Lakeside Ave., Cleveland, Ohio, at $1.96 per sq. yd. The contract for paving the street railway rights-of-way on Waco Ave., Main and Fourteenth Sts. has been awarded to WARNER-QUINLAN PAVING CO. at $2.45 per sq. yd.

OMAHA, NEB.—Bids are asked by Dan B. Butler, City Clerk, until 8 p. m., Feb. 15, for paving various streets in Omaha.

KEARNEY, NEB.—Bids are asked by E. A. Miller, County Clerk, until Feb. 16 for constructing 5½ miles of road.

LINCOLN, NEB.—We are officially advised that bids were received on Jan. 29, by Roscoe C. Orman, City Clk., for grading, curbing and paving 27th, C, A, N and 25th Sts., being in Paving District Nos. 55, 56, 66, 139 and 148, respectively, requiring in all about 13,883 sq. yds. of asphalt pavement, 2,482 sq. yds. brick pavement, 8,254 ft. concrete curb and gutter, 1,153 ft. concrete curb, etc. William Grant is City Engr. The contract has ben awarded to the METROPOLITAN ENGINEERING & CONSTRUCTION CO., Scarritt Bldg., Kansas City, Mo., at $44,565.

FORT MEADE, S. DAK.—GRAINS & SCHUMMER, of Sturgis, S. Dak., have secured the contract for constructing roads and walks at Fort Meade at $14,233.

ST. LOUIS, MO.—Contracts for paving streets were awarded Jan. 25 as follows: To the PARKER-WASHINGTON CO., 4500 Duncan St., St. Louis, for Rowan, Arkansas and Theodosia Aves. and Shawmut Pl. for $32,697; to BARBER ASPHALT PAVING CO., Chemical Bldg., for Arkansas Ave., $5,765; to F. RUECKING, for Pennsylvania, Michigan and Grace Aves. and Fassen, Potomac, Dakota and Pestalozzi Sts. for $57,-694; to P. J. CLIFFORD CONTRACTING CO., for Alfred St., at $8,419; to G. EYERMAN & BRO., for Louisiana Ave. and Henrietta St., $9,653; to JAMES E. PERKINSON for Canaan Ave. and 22d St., $51,805; to WILLIAM E. REDEMEYER for 21st St., for $9,207; to SKRAINKA CONSTRUCTION Co., for Natural Bridge Road, $23,072; to FRUIN-BAMBRICK CONSTRUCTION CO., for Spring Ave., $13,795, and to SCHNEITER GRANITE CO. for Manchester Ave., $46,738.

DALLAS, TEX.—We are officially advised that the TEXAS BITULITHIC CO., of Dallas, Tex., have received contract for 23,085 sq. yds. of bitulithic pavement on Cedar Spring Ave.

SAN DIEGO, CAL.—The City Council has instructed A. F. Crowell, City Engr., to prepare a resolution of intention for grading Webster Ave.

STOCKTON, CAL.—On Jan. 29 the Highway Commission met with the Advisory Board and approved plans for the improvement of almost 100 miles of county roads under the Bonding Act, which gave about $2,000,000 for this particular work. On the work outlined $800,000 will be expended and when completed 112 miles leading out of Stockton will be improved. The roads to be improved are as follows: Cherokee Lane to Eight-mile House distance eight miles; Waterloo Road to Waterloo distance seven miles; Linden Road to Linden, distance twelve miles; Copperopolis Road to turn at Bollinger's, distance eight miles; Farmington Road to Robenson's Lane, distance twelve miles; Mariposa Road to east line of Section 3, distance twelve miles; French Camp Road to the intersection of Hogan Road, distance ten miles. West Side Road to county line, distance 25 miles. The entire specifications will be ready immediately and bids will be called for at once so the work can be commenced at an early date. An effort is to be made to increase the width of the French Camp Road.

LOS ANGELES, CAL.—The Highway Commission has filed plans and specifications for grading on Main St. and Burlington Ave. in connection with the improvement of the harbor boulevard.

*WINNIPEG, MAN.—Bids are asked by the Chairman Board of Control until 11 a. m., Feb. 25, for the supply of from 2,500 to 3,500 tons of asphalt for street paving for the City of Winnipeg. M. Peterson is Secy.

CANADA.—An American consul in a Canadian city reports that the local Board of Trade is agitating the question of repaving four blocks of the main streets of the town, and are securing information concerning the cost of various materials. A Canadian firm quoted $2.25 to $2.50 per sq. yd. of asphalt; while the deputy minister of public works puts the estimate for vitrified brick or asphalt at $2.60 to $2.75 per sq. yd. About 10,000 sq. yds. are to be paved. It might be to the interest of American firms to submit estimates to the Board of Trade. The secretary's name is given in the report by the consul. In applying for addresses refer to file No. 4486, Bureau of Manufacturers, Dept. of Commerce and Labor, Washington, D. C.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

WILKINSONVILLE, MASS.—The Army & Navy Duck Co., of Wilkinsonville, has awarded to the J. W. BISHOP CO., 147 Foster St., Worcester, Mass., the contract to remodel a 3-story stone structure into a weave shed, 110 × 40 ft. The top stories of the building will be filled with looms, and the ground floor will serve as a clothroom.

BOSTON, MASS.—Bids are asked until 11 a. m., March 12, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a wire rope mill building at the Navy Yard, Boston, Mass.

NEW BRITAIN, CONN.—The Russell & Erwin Mfg. Co., makers of hardware, will soon award the contract for an additional factory building. The plans call for a 6-story reinforced-concrete structure, about 60 × 100 ft.

STAMFORD, CONN.—The Yale & Towne Mfg. Co., makers of locks, is having plans drawn for an addition to its plant. The structure, which will be located at the corner of Pacific and Henry Sts., will be about 200 ft. long and probably six stories high.

PLAINVILLE, CONN.—The Empire Electric & Mfg. Co., of Plainville, has filed a certificate of incorporation. It has a capital stock of $50,000 and will manufacture electric fittings. The incorporators are Benjaman Lamb, J. E. Lamb and H. E. Propson, of Plainville; J. F. Lamb, of New Britain, and W. H. Johnston, of New York.

WILLIMANTIC, CONN.—At the annual meeting of the stockholders of the Windham Mfg. Co., held recently, J. H. Hambly, of Providence, R. I., C. H. Pope, of New York, and W. B. Knight, of this city, were elected directors. The directors chose J. H. Hambly Pres. and Treas. and Walter B. Knight, Secy. The company plans to enlarge its plant in this city in the spring by connecting the No. 1 and No. 2 mills, which will make an addition about 35 × 70 ft., four stories high. There are three mills giving employment to about 400 hands.

NORTH TONAWANDA, N. Y.—We are officially advised that the DUROLITHIC CO., 460 Ellicott Sq., Buffalo, N. Y., has been awarded the contract for erecting for the American District Steam Co. a machine shop building at North Tonawanda, N. Y., 240 × 250 ft., with two wings about 50 × 60 ft., all two stories in height, of reinforced concrete, with galvanized iron cornices and ventilators, metal frames and wire glass, cut stone sills, fire doors, elevators, iron stairs, etc. Work is to start April 1.

LOUISVILLE, N. Y.—An addition to the brass works of the Standard Sanitary Mfg. Co. will be erected near Sixth and Shipp Sts., at a cost of between $60,000 and $75,-000.

SYRACUSE, N. Y.—The plans for the proposed 6-story addition to the H. H. Franklin Automobile Works in West Marcellus St. have been prepared by Robert J. Reidpath, Arch., Builders 'Exchange, Buffalo, N. Y.

NEW YORK, N. Y.—The Ward Bread Co., 80 Roberts St., Pittsburg, Pa., is to erect a bakery plant in the Bronx. The cost of the structure will be $300,000. The building will be six stories high, and will cover the block front on St. Marys St., from Southern Boulevard to Wales Ave., a plot 230 × 203 ft. The architect is C. B. Comstock, Herrs Island, N. S., Pittsburg, through whom plans have been filed.

ORANGE, N. J.—Henry M. Matthews, Bldg. Inspector, of Orange, has approved plans for two additions to the plant of the Trimble Hat Co. on South Jefferson St., Orange Valley.

MIDVALE, PA.—A contract has been awarded the RITER-CONLEY CO., 55 Water St., Pittsburg, by the Midvale Steel Co., for the erection of a 1-story addition to its open-hearth plant. The building will be 66 × 135 ft. and will cost about $20,000.

PITTSBURG, PA.—A $25,000 addition will be built to the Hoppenstall Forge & Knife Co.'s plant, near Home and Hatfield Sts. The improvements will be made on the land recently purchased from the Velet Foundry & Machine Co.

UNIONTOWN, PA.—It is reported that the Dunbar Furnace Co., which operates two furnaces near Dunbar will erect a rolling mill plant near the furnaces at a cost of over $2,000,000. The company is said to have engineers working on plans.

WILKES-BARRE, PA.—The Wilkes-Barre Slag Roofing Co., composed of local capitalists, has purchased on Coriear St., Riverside, in the southern section of the city and will start operations at once erecting a factory building for the manufacture of all kinds of roofing. Plans have been prepared for a building, which will occupy a space of 25 × 100 ft.

CRYSTAL RIVER, FLA.—The plant of the Dixon Cedar Pencil Co., which was burned recently, at a loss of $500,000, will be rebuilt.

HUNTSVILLE, ALA.—The Lowe Mfg. Co. will expend about $80,000 to erect the proposed addition and install the 300 looms. It has awarded the contract for machinery.

MEMPHIS, TENN.—The American Snuff Co., which established a plant here last year for the manufacture of snuff, has secured a permit for the erection of an addition thereto that will cost $30,000. The addition will be three stories in height and of concrete construction.

LOUISVILLE, KY.—A factory will be built by the Inman-Pierson Co., which has been incorporated with a capital of $100,000, fully paid in. The plant will represent an investment of about $250,000. The stockholders have elected the following directors: Charles W. Inman, William A. Pierson, H. R. Whiteside, O. G. Hardin and James R. Duffin. Charles W. Inman is Pres. of the corporation; H. R. Whiteside, Vice-Pres., and William A. Pierson, Secy. and Treas.

CINCINNATI, OHIO.—The Laidlaw-Dunn-Gordon Co., 211 West Fourth St., Cincinnati, is to build an extension to the main foundry building, 120 × 162 ft., to be served, by two 10-ton traveling cranes. The building will be of steel frame construction with brick walls and composition roof. An outside crane yard will be served by a 6-ft. span traveling crane.

GARRETT, IND.—The Garrett Paper Mills Co., recently incorporated, has ordered plans on which bids will be asked for the construction of a paper mill. Albert B. Smith is Pres.

CHICAGO, ILL.—The Tarrant Foundry Co., located at the southeast corner of Indiana and Kingsbury Sts., has acquired Southwest Side property on which it will erect a foundry structure. About $100,000 is to be spent in establishing the new plant. The ground space taken is at the northeast corner of West 17th and Robey Sts., measuring 309 × 141 ft. Plans for the new foundry are being prepared by Raeder & Wood, Archs., 77 Jackson Boulevard, and the building is to be hastened to completion under the supervision of this firm. J. H. Van Vlissingen represents the Tarrant company.

MILWAUKEE, WIS.—The Rice & Friedman Estate has awarded the general contract for remodeling the factory and shops at 18th St. and Fond du Lac Ave., to JULIUS PAPKE, of Milwaukee. Cost, $18,-500.

The Prime Steel Co., Chicago Road, Milwaukee, Wis., is preparing plans for the erection of a $10,000 addition to its foundry together with a core room. New equipment to be installed will consist of a 20-ton open-hearth furnace, cranes and other accessories.

MILWAUKEE, WIS.—Plans are being drawn for an addition of three stories to the building of the Everwear Hosiery Co., 172 Fifth St., which now is two stories in height. The work will cost about $45,000 and will begin as soon as the weather permits. The three new stories will be used by the Everwear Hosiery Co. for its knitting machinery. The Everwear company intends the manufacture of children's socks and their present manufacturing space is deemed insufficient.

ST. LOUIS, MO.—A permit has been granted for the foundations, to cost $8,000, for a $100,000 foundry which the John C. Kupferle Foundry Co. will erect at Hall, Wright and First Sts. The building will occupy the lot, 80 × 280 ft., giving the foundry nearly 25,000 sq. ft. of space. The building will be three stories in height and will increase the present capacity of the Kupferle Company about one-third.

FORT SAM HOUSTON, TEX.—Bids are asked by the Constructing Q. M., until 11 a. m., March 2, for the construction of a pumping, ice and ice storage plant and concrete reservoir at Fort Sam Houston, Tex.

KERSEY, COLO.—The Denver Reservoir & Irrigation Co. will build a sugar factory on its site south of Kersey, it is stated.

PORTLAND, ORE.—The Oregon Flake Food Co. and the Pacific Coast Corn Flake Co., both located near St. Johns, Ore., have combined under the name of Pacific Northwest Milling Co. and will build a plant on the O. R. & N. line at the foot of Philadelphia St. Capital stock, $25,000. Dr. Josept McChesny is Pres.

EL CENTRO, CAL.—J. T. TRAVERS has been awarded the contract to construct a cold storage plant, 100 × 120 ft., for the Holton Power Co.

PERRIS, CAL.—H. W. Miller, of Riverside, Cal., will erect a planing mill and lumber yards at Perris.

PHOENIX, ARIZ.—The Southern Pacific Co. has purchased property here, upon which to erect repair shops of concrete. H. J. Small is Gen. Supt M. P., San Francisco, Cal.

HAMILTON, ONT.—The Otis-Fensom Elevator Co. has decided to remain here instead of removing to Toronto, and make additions costing $200,000. The company has finished about $50,000 worth of plant extension.

It is stated that the Hamilton Steel & Iron Co. will spend about $1,000,000 for additions soon.

ST. BONIFACE, MAN.—The Western Canada Flour Mills Co. will erect elevators at St. Boniface opposite Winnipeg and Goderich, Ont. S. A. McGraw, Gen. Mgr., Bulman Block, Winnipeg.

EDMONTON, ALTA.—We are officially advised that the Edmonton Radial Ry. System will erect a fireproof car house in Edmonton to be 250 × 180 ft. The structure will accommodate 50 cars, and will contain eight tracks. A machine shop and offices will also be provided for in the building. Construction will be of brick. Bids will be received about April 1. Only the building will be erected this year. Nothing has been decided regarding equipment. Charles E. Taylor is Supt.

VICTORIA, B. C.—James A. Moore, Pres. of the Irondale Smelting Co., has purchased a tract of coal lands on Granby Island, to be worked in conjunction with a steel plant proposed to be established on Vancouver Island. The steel works will cost from $500,000 to $1,000,000 and will employ 20,-000 men.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Anoka, Minn.—Bids will be received until Feb. 12 by D. M. Murphy, Supt. Construction, for constructing Renbargor Drain. Estimated cost, $3,052.

*DREDGING.—Savannah, Ga.—Bids are asked by Col. D. C. Kingman, Corps Engrs, U. S. A., until noon, March 3, for dredging in Club and Plantation Creeks, Ga.

TIMBER.—New York, N. Y.—Bids will be received until 3 p. m., Feb. 17, by the Department of Parks for furnishing and delivering timber (No. 1, 1910) for parks, Boro. of The Bronx.

STEEL.—Wheeling, W. Va.—Bids will be received until 11 a. m., Feb. 17, by Capt. F. W. Altstaetter, Corps Engrs, U. S. A., for furnishing and delivering structural steel forgings steel and iron castings, bolts, etc., for dam No. 26, Ohio River.

*FIRE HOSE.—Washington, D. C.—Bids are asked by Capt. H. L. Pettus, Q. M., General Depot, Washington, until 10 a. m., March 1, for furnishing at various posts of U. S. Army 32,580 ft. 2½-in. fire hose, 350 ft. 1¾-in. fire hose and 500 ft. ¾-in. fire hose.

CULVERTS.—Ashley, N. Dak.—Bids are asked until April 4 by the Board of County Commissioners at Ashley, for furnishing about twelve metal culverts of various sizes, to be delivered in the villages of Wishek, Ashley and Zeeland. John F. George, County Audr.

DITCH.—Olivia, Minn.—Bids will be received by J. L. Johnson, County Audr. Renville County, until 10 a. m., March 1, for construction of County Ditch No. 45. Estimated cost, $21,062. There will be about 14.3 miles of tile drains. Total estimated cost, $37,974.

LEVEE.—Des Moines, Iowa.—Bids were received on Feb. 1 by H. B. Frase, County Audr., for drain in Drainage District No. 9, Allen Township. Estimated quantity, 89,505 cu. yds. Contract was awarded to O. P. HERRICK, Observatory Bldg., Des Moines, at $13,675.

*TILE DRAINS.—Monticello, Ill.—Bids are asked until 10 a. m., Feb. 26, by the Lake Fork Special Drainage District Commissioners at County Clerk's office, Monticello, Ill. for the construction of 25,955 ft. of tile drains ranging in size from 8 to 20 ins. W. J. Day, Bement, Ill., is Engr.

PNEUMATIC TUBE SERVICE.—New York, N. Y.—Bids will be received by the Supervising Architect, Treasury Dept., Washington, D. C., until 3 p. m., Feb. 21, for the installation of a double pneumatic tube service between the U. S. Custom House and the U. S. Appraisers Warehouse, New York.

DITCH.—Warren, Minn.—Bids will be received by the State Drainage Board, S. G. Iverson, Audr., St. Paul, Minn., until March 1, for the construction of a ditch to drain Marshall and Beltrami Counties. The ditch will represent a cost of $530,000, as there will be more than 5,540,000 cu. yds. of excavation.

*STREET SIGNS.—Watertown, N. Y.—Bids are asked by the Board of Public Works of the City of Watertown, N. Y., until Feb. 18 for 251 4-way street signs with brackets, to be placed on telephone poles; 116 single signs to go on buildings and 12 4-way signs with posts. E. W. Sayles is City Engr.

*DITCH.—Warrensburg, Mo.—Bids are asked by the Board of Supervisors of Black-water Drainage District No. 1, of Johnson County, Mo., until noon, March 10, for clearing right-of-way and excavating main ditch, straightening Blackwater Creek and containing approximately 1,000,000 cu. yds. of earth and laterals and small ditches containing about 225,000 cu. yds. of earth. T. O. Shanley is Engr.

LUMBER, SUPPLIES.—New York, N. Y.—Bids will be received until 3 p. m., Feb. 17, by the Department of Parks for furnishing and delivering the following items at Prospect Park, Boro. Brooklyn: Tools and implements, wheelwrights' supplies, paints, hardware, rubber goods, plumbing material, masons' supplies, oils, etc., and blacksmiths' supplies. Also for furnishing and delivering lumber in parks and on parkways, Boros. of Brooklyn and Queens.

DITCHES.—Valparaiso, Ind.—Bids will be received by G. F. Stinchfield, County Audr., until Feb. 12 for constructing the Jones Ditch, to include a dredge ditch 6¼ miles in length, comprising about 93,454 cu. yds. excavation. Estimated cost, $6,530.

Bids will also be received, same place as above, until March 1, for constructing the Swan-on-Lamonte Ditch, eight miles in length, including 88,954 cu. yds. excavation. Estimated cost, $10,209.

WIRELESS APPARATUS.—Washington, D. C.—Bids were received by the Navy Department, Washington, D. C., on Feb. 1 for furnishing 19 wireless telegraph sets, 2-KW. steam turbo generator, for use on various

small vessels of the navy: American Wireless Co., Boston, $108,800; Marconi Wireless Telegraph Co., New York, $103,423; Radio Telephone Co., New York, $74,800; Telefunken Wireless Telegraph Co., New York, $104,350; United Wireless Co., New York, $90,624.

*DITCH.—Warren, Minn.—Bids are asked until 10 a. m., March 1, at the office of A. G. Lundgren, County Audr. of Marshall County, in the Court House in the City of Warren, for digging and constructing Judicial Ditch No. 11 of Marshall and Beltrami Counties, together with the branches thereof, shown in the Engineer's report, all as established by order of the Judge of the District Court of Marshall County, Minn. The approximate amount of work to be done in the matter of the construction of such a ditch is as follows: Estimated number of cu. yds. of excavation of main ditch and branches, 5,539,578 cu. yds. of earth; estimated total cost of the work, the sum of $529,962. The total number of miles of leveling of road work to be done along the said ditch is about 550. W. R. Hoag, 1320 Seventh St., Minneapolis, Minn., is Engr.

TILE DRAINS.—Des Moines, Iowa.—Bids were received on Jan. 31 by H. B. Frase, County Audr., for constructing a tile drain in Drainage Dist. No. 8, Clay Township, requiring the laying of about 10,535 ft. of drain 10 to 20-in. tile. Contract was awarded to the WAGNER CO., Des Moines.

Bids were received Feb. 2 by H. B. Frase, County Audr., for constructing a tile drain in Drainage Dist. No. 10, Clay Township, requiring laying of about 10,500 ft. of from 8 to 18-in. tile. Contract was awarded to W. T. DAVIS, Altoona, Iowa.

LEVEE.—Marksville, La.—Bids were received at the office of the Red River and Bayou des Glaizes Levee Board, at Marksville, La., on Feb. 1, for the construction of the David's Ferry South No. 2 levee, on the right bank of Red River, in Avoyelles parish. The levee is to be four miles in length, and to contain about 350,000 cu. yds. of earth. Contract was awarded to DAMERON & WHITE, Hennen Bldg., New Orleans, at 25 cts. per cu. yd. A. E. Gremillion is Secy. of the Red River and Bayou des Glaize Levee and Drainage Dist.

CONTRACT PRICES.

*CATSKILL AQUEDUCT.—New York, N. Y.—The following itemized bids were received on Jan. 18 by the Board of Water Supply of the City of New York, for Contract 68, for the construction of seven steel-pipe siphons and adjacent portions of the Catskill Aqueduct, consisting of riveted steel shells, 9 ft. 9 ins., and 11 ft. 3 ins. nominal inside diameter, enveloped with concrete and lined with Portland cement mortar, aggregating 2.6 miles; also several stretches of aqueduct in open cut and embankment or cut-and-cover aqueduct aggregating about 250 ft.: (A) DAVID PEOPLES, 1,000 Betz Bldg., Philadelphia, Pa. (awarded contract); (B) East Jersey Pipe Co., 90 West St., New York; (C) Breuchaud Winston & Co., 290 Broadway, New York; (D) F. V. Smith Contracting Co., 125th St. and Lexington Ave., New York; (E) William F. Norton, 215 West 125th St., New York; (F) North-Eastern Construction Co., 225 Fifth Ave., New York; (G) Snare & Triest Co., 143 Liberty St., New York; (H) Pittsburg Contracting Co., 1942 Forbes St., Pittsburg, Pa.; (I) Average bid:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
39,000 cu. yds. removal of soil	$0.50	$0.55	$0.70	$0.45	$0.60	$0.50	$0.70	$0.50	$0.56¼
95,000 cu. yds. earth excavation	.60	.50	.70	.65	.60	.60	.80	1.10	.69¼
20,000 cu. yds. rock excavation	2.50	2.50	2.25	2.25	2.50	2.40	2.75	2.25	2.42½
145,000 cu. yds. refilling and embanking	.32	.35	.30	.38	.40	.40	.40	.50	.38
Railroad crossings and control of streams (lump sum)	3,800.00	5,000.00	2,000.00	3,000.00	4,000.00	14,400.00	12,000.00	15,000.00	7,400.00
26,000 cu. yds. surface dressing and grassing	.50	.60	.50	.50	.45	.40	.40	.50	.48
5,325 lin. ft. 9-ft. 9-in. steel pipe, 7/16-in. plate, lap-jointed	29.00	27.00	30.00	32.00	35.00	37.00	36.00	40.00	33.25
5,475 lin. ft. 11-ft. 3-in. steel pipe, 7/16-in. plate, lap-jointed	33.00	33.00	32.00	35.00	39.00	40.00	42.00	45.00	37.37½
150 lin. ft. 11-ft. 3-in. steel pipe, ½-in. plate, lap-jointed	38.00	40.00	43.00	38.00	49.00	44.00	45.00	45.00	42.75
2,465 lin. ft. 11-ft 3-in. steel pipe, ½-in. plate, long, seams butt-jointed	46.00	43.00	42.00	48.00	57.00	54.00	50.00	50.00	48.75
255 lin. ft. 11-ft. 3-in. steel pipe, 9/16-in. plate, long, seams butt-jointed	50.00	50.00	50.00	52.00	63.00	56.00	53.00	55.00	53.62½
54,000 lbs. steel castings	.09	.11	.07	.12	.14	.10	.10	.12	.10¾
5,340 lin. ft. mortar lining for 9-ft. 9-in. steel pipe	3.00	4.00	4.50	3.00	2.00	4.50	4.00	3.50	3.56¼
8,350 lin. ft. mortar lining for 11-ft. 3-in. steel pipe	3.50	4.50	5.00	3.50	2.35	4.50	4.50	4.50	4.04½
225,000 sq. ft. reinforcement of mortar lining for steel pipe	.02	.03	.03	.03	.03	.02	.02	.03	.02¾
29,000 cu. yds. concrete masonry around steel pipe	5.25	4.50	6.00	5.75	5.00	5.75	7.50	6.50	5.78
1,400 cu. yds. concrete masonry for cut-and-cover aqueduct	5.25	6.00	6.00	8.25	6.00	6.00	8.00	6.00	6.43¾
13,000 cu. yds. concrete masonry for siphon,blow-off chambers, culverts, etc.	6.00	9.00	6.50	7.00	6.00	6.25	8.00	8.00	7.09½
2,500 cu. yds. reinforced concrete	9.00	12.00	10.00	8.00	8.00	7.00	10.00	10.00	9.25
300,000 lbs. steel for reinforcing concrete	.03½	.03½	.05	.03½	.02½	.04	.03	.03	.03½
1,000 cu. yds. dry rubble masonry and paving	3.00	2.70	3.50	2.50	2.00	3.00	3.50	4.00	3.02½
200 cu. yds. rubble masonry and paving in mortar	4.00	3.30	3.25	4.00	3.00	4.50	4.50	5.00	3.94½
66,000 bbls. Portland cement	1.60	1.50	1.75	1.75	1.65	1.70	2.00	1.85	1.72½
700 cu. yds. surfacing macadam roads	3.00	3.60	2.75	3.50	3.00	3.00	3.50	4.00	3.29½
700 cu. yds. sand, gravel and broken stone	2.00	1.80	2.00	2.00	3.00	1.50	2.50	4.00	2.35
6,000 lin. ft. tile pipe, 6-in. and less in diameter	.50	.50	.25	.30	.50	.40	.30	.30	.38
150 lin. ft. tile pipe, 8 to 12-in. in diameter	.75	1.20	.70	1.00	.75	1.00	1.00	.50	.86¼
300 lin. ft. tile pipe, larger than 12-in. and not over 24-in. in diameter	2.00	1.80	1.30	3.00	2.50	3.00	3.00	1.00	2.20
325 tons c.-i. pipe and special pipe castings	80.00	66.00	75.00	80.00	70.00	60.00	70.00	100.00	75.12½
8 sluice-gates	100.00	300.00	50.00	75.00	100.00	80.00	80.00	100.00	110.62½
100,000 lbs. caring for and setting metal work furnished by the city	.02	.04	.01	.02	.02	.02½	.02	.05	.02½
17,000 lbs. miscellaneous c.-i., w.-i. and steel	.07	.05	.06	.06	.06	.05	.08	.10	.06¾
2,000 lbs. galvanizing	.05	.07	.02	.05	.05	.03	.05	.05	.04¾
24,000 lbs. bronze pipe and miscellaneous bronze	.70	.85	.60	.70	.65	.60	.60	.80	.68¾
70 M. ft. B. M. timber and lumber	60.00	60.00	50.00	50.00	50.00	60.00	70.00	60.00	57.50
31,000 lin. ft. stone boundary walls	1.00	.80	.90	1.00	1.00	.50	1.00	1.00	.90
14,000 lin. ft. fences and guard rails	.35	.30	.30	.35	.40	.30	.30	.40	.33½
370 lin. ft. reinforced concrete ladders	3.00	3.75	.10	4.00	3.00	2.00	2.00	2.50	2.54½
5 portions testing portions of cut-and-cover aqueduct	700.00	1,000.00	300.00	700.00	500.00	200.00	1,000.00	500.00	612.50
Cleaning up (lump sum)	4,000.00	2,500.00	2,000.00	1,000.00	1,000.00	2,000.00	5,000.00	5,000.00	2,812.50
Totals	$1,189,557	$1,203,757	$1,237,232	$1,266,330	$1,271,375	$1,318,510	$1,468,640	$1,516,195	.....

Bond required: $330,000. Time: 36 months.

*CATSKILL AQUEDUCT.—New York, N. Y.—On Jan. 25 the following bids were received by the Board of Water Supply of the City of New York for Contract 54 for the construction of a portion of the Yonkers Pressure Tunnel in the Hill View Division of the Catskill Aqueduct: (A) GEORGE W. JACKSON, INC., 46 Wall St., New York (awarded contract); (B) T. A. Gillespie Co., 90 West St., New York; (C) Patrick McGovern, 6 Beacon St., Boston, Mass.; (D) MacArthur Bros. Co., 11 Pine St., New York; (E) J. F. Cogan Co., Brewster, N. Y.; (F) Carter Construction Co., 184 LaSalle St., Chicago, Ill.; (G) The Dravo Contracting Co. Pittsburg, Pa.; (H) Keystone State Construction Co., Philadelphia, Pa., and 2 Rector St., New York; (I) Henry P. Burgard Co., 275 Lathrop St., Buffalo, N. Y.; (J) Breuchaud Winston & Co., 290 Broadway, New York; (K) Average bid:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
15 lin. ft. construction shafts in earth	$90.00	$250.00	$190.00	$150.00	$150.00	$180.00	$300.00	$200.00	$350.00	$150.00	$201.00
370 lin. ft. construction shafts in rock	210.00	250.00	250.00	250.00	300.00	180.00	300.00	230.00	350.00	15.00	247.00
150 lin. ft. refilling construction shafts	40.00	8.00	5.00	7.00	3.00	9.00	6.00	10.00	8.00	5.00	10.10
150,000 cu. yds. excavation of tunnels	4.75	5.15	5.20	5.50	6.00	6.00	6.00	5.70	6.50	7.35	5.81
600 sq. yds. additional trimming in shafts and tunnels	3.00	3.50	3.00	5.00	3.00	5.00	3.00	8.00	10.00	5.00	4.85
770,000 lbs. furnishing structural steel roof support	.03	.03	.05	.04	.03	.01	.03	.03	.05	.04	.03½
770,000 lbs. erecting structural steel roof support	.03	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01½
140 M. ft. B. M. temporary timbering	60.00	50.00	60.00	50.00	50.00	50.00	50.00	60.00	60.00	60.00	55.00
25,000 ml. ft. gal pumping from shafts and tunnels during construction	.20	.10	.20	.25	.30	.05	.20	.30	.25	.20	.20½
12,080 lin. ft. drainage channels for shafts and tunnels	1.50	1.50	1.00	1.50	1.00	.25	1.50	2.50	2.00	.25	1.30
12,210 lin. ft. forms for lining tunnels	3.00	3.50	2.50	4.00	1.00	4.00	3.00	3.00	3.00	1.50	2.85
56,000 cu. yds. concrete masonry in shafts and tunnels	4.80	5.00	5.25	5.25	5.50	6.00	5.25	5.80	5.00	5.40	5.32½
2,500 cu. yds. excess concrete masonry in shafts and tunnels	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
100 cu. yds. brick masonry in shafts and tunnels	14.00	12.00	18.00	15.00	15.00	20.00	15.00	15.00	15.00	15.00	15.40
3,500 cu. yds. dry packing in tunnels	2.50	2.25	2.00	2.50	2.00	3.00	2.00	2.50	2.50	1.50	2.27½
445,000 lbs. structural steel interlining in branch tunnels	.03½	.08	.07	.08	.10	.08	.06	.09	.10	.06	.07½
900 sq. ft. cutting channels for water-stops	1.00	2.50	2.00	2.50	5.00	3.00	3.00	2.00	1.00	2.00	2.40
1,000 lin. ft. drilling 1¼-in. or smaller holes in rock or masonry	.50	.30	.50	.50	.50	.50	.40	.40	.50	.30	.44
1,000 lin. ft. drilling 1¾-in. to 2½-in. holes in rock or masonry	.60	.40	.60	.60	.75	1.00	.50	.50	.60	.30	.58½
20,000 lin. ft. steel pipe for grouting, etc.	.30	.25	.20	.25	.15	.40	.20	.25	.25	.20	.24½
Miscellaneous plant and equipment for grouting (lump sum)	1,500.00	1,000.00	4,000.00	3,000.00	1,000.00	4,500.00	2,500.00	2,000.00	4,000.00	500.00	2,400.00
7 high-pressure air-compressors for grouting	300.00	100.00	350.00	300.00	300.00	300.00	300.00	300.00	300.00	250.00	290.00
7 tank grouting machines	300.00	150.00	250.00	300.00	200.00	250.00	250.00	300.00	250.00	250.00	250.00
25 grouting pads	60.00	50.00	50.00	60.00	60.00	70.00	60.00	70.00	60.00	70.00	61.00
3,000 making connections of tank grout machines to grout pipes	1.00	.75	.50	1.00	1.00	.60	1.00	1.00	1.00	.50	.83½
1,000 setting grouting pads	1.00	1.00	1.00	2.00	2.00	2.00	1.00	2.00	1.00	1.00	1.40
1,000 tons sand for grout	2.00	1.75	1.50	1.50	1.75	2.00	2.00	2.00	2.50	1.00	1.77½
1,400 cu. yds. mixing and placing grout	4.00	4.00	4.50	5.00	4.00	5.00	4.00	5.00	7.00	2.00	4.45
2 hydrostatic tests of pressure tunnel	2,000.00	750.00	2,500.00	2,500.00	500.00	1,800.00	1,000.00	4,000.00	1,500.00	500.00	1,705.00
2,000 cu. yds. earth excavation in open cut	.70	1.00	.75	.75	.80	1.00	1.00	2.00	1.00	.60	.90
4,500 cu. yds. refilling and embanking	.40	.80	.50	.50	.40	.50	2.00	.50	.25	.50	.59½
5,000 cu. yds. excavating soil	.60	1.00	.50	.50	1.00	.75	.50	1.50	1.00	.60	.79½
4,000 cu. yds. surface dressing of earth	.40	.60	.60	.50	.75	.75	.50	1.00	.50	.60	.62
10 M. ft. B. M. timber and lumber	60.00	50.00	70.00	60.00	60.00	100.00	50.00	60.00	50.00	50.00	61.00
10,000 cu. yds. rock excavation in open cut	.90	3.50	2.00	1.25	1.50	2.50	2.75	2.50	2.85	1.75	2.15
2,000 cu. yds. concrete masonry in open cut	6.00	10.00	5.00	5.50	5.50	7.00	5.50	6.00	8.00	5.25	6.37½
100 cu. yds. reinforced concrete not in tunnel	7.00	13.00	6.00	14.00	20.00	12.00	10.00	9.00	10.00	10.00	11.10
180 cu. yds. cut stone masonry	30.00	20.00	40.00	45.00	25.00	65.00	40.00	30.00	20.00	50.00	36.50
Doors, sash, hardware, etc., for connection chamber (lump sum)	300.00	750.00	1,000.00	400.00	500.00	1,000.00	1,000.00	2,000.00	600.00	1,500.00	905.00
10,000 lbs. steel for reinforcing concrete	.03	.04	.05	.04	.06	.06	.03	.04	.05	.04	.04½
1,000 lbs. miscellaneous cast iron, wrought iron and steel	.03	.07	.05	.07	.10	.10	.08	.08	.12	.08	.08
500 lbs. galvanizing	.04	.04	.05	.05	.04	.06	.05	.05	.02	.02	.04
105,000 bbls. Portland cement	1.55	1.60	1.60	1.40	1.40	1.35	1.50	1.60	1.50	2.00	1.55
100,000 lbs. sulphate of alumina for waterproofing concrete, mortar, etc.	.02	.01	.02¼	.03	.02	.03	.02	.02	.01½	.01	.02
100 tons cast-iron pipe and special pipe castings	80.00	70.00	100.00	80.00	100.00	100.00	100.00	100.00	100.00	70.00	90.00
200,000 lbs. caring for and setting metal-work furnished by the city	.02	.01	.02	.01½	.01	.03	.03	.05	.02	.01	.02
500 lbs. bronze pipe and miscellaneous bronze	.80	.70	.50	.50	.70	.75	.80	.80	1.00	.60	.71½
100 lin. ft. vitrified pipe, 15-inch and smaller	1.00	.50	1.00	.75	1.00	1.00	1.00	1.00	2.00	.75	1.00
100 cu. yds. dry rubble masonry and paving	3.00	2.00	4.00	3.50	3.00	3.00	4.00	3.00	3.00	4.00	3.25
100 cu. yds. rubble masonry and paving in mortar	4.00	2.50	5.00	4.50	4.00	5.00	4.50	4.00	3.50	4.00	4.10
400 cu. yds. surfacing macadam roads	3.00	2.00	2.50	2.50	2.50	3.00	2.00	3.00	4.00	3.00	2.75
3,000 lin. ft. fences and guard-rails	.40	.25	.30	.30	.40	.50	.50	.40	.30	.30	.36½
4 miles poles or other supports for telephone system	1,500.00	250.00	250.00	400.00	450.00	225.00	500.00	700.00	1,000.00	600.00	587.50
16 miles single conductors with pins and insulators for telephone system	200.00	60.00	150.00	125.00	40.00	90.00	100.00	140.00	200.00	150.00	125.50
8 install. and maintaining telephone instruments, etc., furnished by the City	400.00	25.00	75.00	10.00	100.00	50.00	100.00	100.00	25.00	50.00	93.50
2 locker houses	1,500.00	1,800.00	1,500.00	1,200.00	2,500.00	1,600.00	1,500.00	1,500.00	2,000.00	1,500.00	1,680.00
Cleaning up (Lump sum)	1,000.00	2,000.00	1,000.00	1,000.00	1,000.00	1,500.00	1,000.00	3,000.00	1,500.00	1,000.00	1,400.00
Totals	$1,479,425	$1,501,330	$1,596,680	$1,647,210	$1,701,200	$1,716,555	$1,726,405	$1,759,525	$1,868,320	$1,880,725	.....

Bond required: $475,000. Time: 40 months.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

	Noted in issue of
2-14 Motor, etc., Hancock, Mich.	2-10
2-15*Equipment, Winnipeg, Man.	12-30
2-15 Elec. light plant, Albemarle, N. C.	2- 3
2-16*Equipment, Poughkeepsie, N. Y.	2- 3
2-17 Elec. light plant, Erie, Kan.	1-27
2-17 Wiring, etc., Boise Barracks, Idaho	2-10
2-21*Power plant, Tacoma, Wash.	1-27
2-24 Engine, Lincoln, Neb.	2-10
3- 1*Gas mains, Bristol, Conn.	2-10
3- 9*Power-house, Wheeling, W. Va..	2-10

Bridges.

2-12 Bridge, Palatka, Fla.	2- 3
2-14 Bridge work, Reading, Pa.	2- 3
2-14 Bridge, Tacoma, Wash.	2-10
2-14 Bridge, Jefferson, Ohio.	2-10
2-16*Bridge, Rye, N. Y.	2-10
2-16*Metal work, Wilmette, Ill.	2-10
2-16 Bridge work, Cleveland, Ohio.	1-27
2-17 Bridge lumber, New York.	2-10
2-18*Bridge, Duluth, Minn.	2-10
2-23 Bridge, Globe, Ariz.	2-10
2-23 Bridges, Minden, Neb.	2-10
2-23 Bridge, Chattanooga, Tenn.	2-10
2-23 Bridge, Washington, Pa.	1-27
2-23 Bridges, Montezuma, Iowa.	2- 3
2-28*Swing span, Snohomish, Wash.	2- 3
3- 1 Bridge, etc., Vancouver, Wash.	2- 3
3- 1*Bridge work, Chattanooga, Tenn.	2-10
3- 7 Bridge extension, Topeka, Kan.	2-10
3- 7 Bridges, Bradentown, Fla.	2-10
3- 7 Bridge, Sylva, N. C.	2-10
3- 7 Raising span, etc., Oxford, N. C.	2- 3
3-14 Bridge, Savannah, Ga.	2- 3

Buildings.

2-11 School, Clay City, Ind.	2- 3
2-14 School, Cincinnati, Ohio.	2- 3
2-15 Y. M. C. A., Berkeley, Cal.	2-10
2-15 Post-office, Emporia, Kan.	1-13
2-16 Refrig. mach., Ft. Bayard, N. Mex. (Mfg. Pl.)	1- 6
2-16 Cottages, Ward's Island, N. Y.	2- 3
2-16 Plumbing, New York.	2-10
2-17 Building materials, New York.	2-10
2-17 Quarters, Boise, Idaho	1-27
2-18*Post-office, Henderson, N. C.	1-20
2-18*Laundry, etc., Louisville, Ky.	1-20
2-19 Quarters, Bremerton, Wash.	1-13
2-21*Post-office, Pawtucket, R. I.	1-20
2-21 Laundry, Ft. Logan, Colo. (Mfg. Pl.)	2- 3
2-22 Building, Manhattan, Kan.	1-27
2-23 Prison, Stillwater, Minn.	2- 3
2-24 Post-office, Rock Island, Ill.	12-30
2-24 Foundation, St. Paul, Minn.	2-10
2-25*Post-office, Goldsboro, N. C.	1-27
2-26*Store house, Ft. Wood, N. Y.	2- 3
2-28 Building, Crookston, Minn.	2-10
3- 1*Barracks, Ft. Douglas, Utah.	2- 3
3- 1 Post-office, Hot Springs, Ark.	1- 6
3- 2 Post-office, Meridian, Miss.	1-20
3- 2*B'ldings, Ft. D. A. Russell, Wyo.	2-10
3- 2 Ice plant, Ft. Sam Houston, Tex. (Mfg. Pl.)	2-10
3- 3*Post-office, Lynchburg, Va.	1-27
3- 4 Post-office, Lead, S. Dak.	1-27
3- 7 Stable, Ft. Mackenzie, Wyo.	2-10
3- 9 Post-office, Athens, Ga.	1-27
3-10 Painting, etc., Duluth, Minn.	2- 3
3-11 Post-office, Jackson, Tenn.	2-10
3-12 Wire rope mill, Boston, Mass. (Mfg. Pl.)	2-10
3-14*Post-office, Frankfort, Ky.	2- 3
3-15*Post-office, Denver, Colo.	1-27
3-16 Post-office, Danville, Va.	2- 3
3-17*Post-office, Richmond, Va.	2-10
3-22*Post-office, Fremont, Neb.	2- 3
3-24 Post-office, Sacramento, Cal.	2- 3
3-30*Court-house, Butte, Mont.	2- 3

Water-Works.

2-11 Pipe, Kaysville, Utah.	2-10
2-14 Water-works materials, Saskatoon, Sask.	2-10
2-14 Pumping stat'n, Wheeling, W. Va.	2-10
2-14 Lining reservoirs, Fort Mackenzie, Wyo.	1-27
2-15 Water-works, Midland, Tex.	1- 6
2-15*Sluicegates, New York.	2- 3
2-15 Pipe, Ottawa, Ont.	2-10
2-15 Excavation, Willows, Cal.	2-10
2-15 Water-works, Central Point, Ore.	2-10
2-15 Water main, Ellendale, N. Dak.	2-10
2-17*Pumping station, Burlington, Iowa	1-27
2-17*Pumping engines, Poughkeepsie, N. Y.	1-27
2-17 Main extens., Ft. Wayne, Mich.	2- 3
2-18 W.-Wks., Hebron, Neb.	2- 3
2-18 Water mains, Salt Lake City, Utah	2-10
2-18 Outlet gates, Modesto, Cal.	2-10
2-19 Pump house, Fort Robinson.	2- 3
2-21 Dam, etc., Colorado Springs, Colo.	2- 3
2-21 W.-Wks., Merkel, Tex.	2- 3
2-21 Water main, Ft. Bayard, N. Mex.	2-10
2-23*Water main, Elizabeth, N. J.	2- 3
2-26 Well, Haswell, Colo.	2- 3
2-26 Well, Cortez, Colo.	2- 3
2-28 Water-works, Milford, Iowa	2- 3
2-28 Dam, etc., Dallas, Tex.	2- 3
3- 7 Pump, Rock Island, Ill.	2-10
3-14 Pumping engine, Phoenix, Ariz.	2-10

Sewers.

2-10 Sewers, Grinnell, Iowa.	2-10
2-11 Sewer, St. Louis, Mo.	1-13
2-11 Sewers, St. Louis, Mo.	1-27
2-11 Sewer, Cincinnati, Ohio	2- 3
2-12 Contact beds, Hudson, N. Y.	2- 3
2-14 Sewage pump, Sacramento, Cal.	2- 3
2-14 Sewer, Washington, N. J.	1-27
2-15*Sewer outlet, etc., Toronto, Ont.	12-23
2-15*Sewer addition, Medina, N. Y.	2- 3
2-15 Sewer extension, Ardmore, Okla.	2-10
2-16*Sewer system, Lawton, Okla.	12-30
2-16*Sewers, Boone, Iowa	2- 3
2-17 Sewers, Carterville, Mo.	2-10
2-18 Sewers, Hebron, Neb.	1-27
2-19 Drain, Charleston, S. C.	1-27
2-23 Drain ditches, Grandfalls, Tex.	2-10
2-25 Sewer, Vancouver Barracks, Wash.	2-10
3- 3 Sewage pump station, El Paso, Tex.	2- 3
3- 7*Sewerage system, Fort Sill, Okla.	2-10
4- 4 Culverts, Ashley, N. Dak.	2-10

Streets and Roads.

2-11 Street impvt., Cincinnati, Ohio.	1-20
2-11 Asphalt, Cincinnati, Ohio	2- 3
2-11 Paving, Oconomowoc, Wis.	2- 3
2-11 Paving, Toledo, Ohio.	2-10
2-11 Paving, Sheboygan, Wis.	2-10
2-14 Paving, etc, Atlantic City, N. J.	2-10
2-14 Road, Westminster, Md.	2-10
2-14 Macadam, etc., Hamilton, Ohio.	2-10
2-14 Paving, Ashland, Ohio.	2-10
2-14 Paving, Collinwood, Ohio.	2-10
2-14 Sidewalks, New York	2- 3
2-14 Road, Toms River, N. J.	2- 3
2-14 Paving, Atlantic, Iowa.	2- 3
2-14 Road, San Mateo, Cal.	2- 3
2-14 Grading, Los Angeles, Cal.	2- 3
2-14*State roads, Albany, N. Y.	1-27
2-15 Paving, East St. Louis, Ill.	2- 3
2-15 Paving, Norfolk, Va.	2-10
2-15 Paving, Omaha, Neb.	2-10
2-16 Paving, etc., East St. Louis, Ill.	2-10
2-16 Road, Kearney, Neb.	2-10
2-16*State roads, Albany, N. Y.	1-27
2-17 Road, Towson, Md.	2- 3
2-17 Paving, Green Bay, Wis.	2-10
2-18*Street signs, Watertown, N. Y.	2-10
2-18*State roads, Albany, N. Y.	1-27
2-21 Paving, Burlington, Iowa.	2- 3
2-25 Road, Cincinnati, Ohio.	2-10
2-25*Asphalt, Winnipeg, Man.	2-10
2-26 Limestone, Bexley, Ohio.	2-10
3- 1 Highways, Bowling Green, Ohio.	2-10
3- 1 Driveways, etc., Moline, Ill.	1-13
3- 3 Walks, etc., Ft. Hamilton, N. Y.	2-10
3- 7 Paving, Dothan, Ala.	2-10
3- 7 Roads, Oxford, N. C.	2- 3
3-10*Sidewalks, Pensacola, Fla.	2-10
3-15 Roads, Gordon, Ala.	1-13
3-17*Paving, Corning, N. Y.	2-10
3-30 Paving, Raleigh, N. C.	2-10

Miscellaneous.

2-12 Ditch, Marion, Ind.	2- 3
2-12 Ditch, Anoka, Minn.	2-10
2-12 Ditch, Valparaiso, Ind.	2-10
2-14 Canal, Oklahoma City, Okla.	1-27
2-15 Coal handling plant, N. Chicago, Ill	1-27
2-16 Barge canal, Albany, N. Y.	1-27
2-16 Ditch, Anoka, Minn.	2- 3
2-17 Steel, Wheeling, W. Va.	2-10
2-17 Timber, New York	2-10
2-17 Lumber, supplies, New York.	2-10
2-18*Street signs, Watertown, N. Y.	2-10
2-19 Drain, Charleston, S. C.	2- 3
2-21*Pier improvement, Albany, N. Y.	2- 3
2-21*Earth work, Colo. Springs, Colo.	1-27
2-23 Dredging, excav., Chicago, Ill.	2- 3
2-23 Ditches, Grand Falls, Tex.	2- 3
2-23 Pneumatic tube service, N. Y.	2-10
2-24 Pile, crib walls, Wheeling, W. Va.	2- 3
2-26*Tile drains, Monticello, Ill.	2-10
2-28*Incinerating plant (garbage), Lynchburg, Va.	1-27
2-28 Fence, gates, Winnipeg, Man.	1-27
3- 1 Ditch, Valparaiso, Ind.	2-10
3- 1 Ditch, Olivia, Minn.	2-10
3- 1 Ditch, Warren, Minn.	2-10
3- 1*Fire hose, Wash., D. C.	2-10
3- 1*Ditch, Warren, Minn.	2-10
3- 3*Dredging, Savannah, Ga.	2-10
3- 5*Iron, steel, Dallas, Tex.	2- 3
3- 5 Piers, Charleston, S. C.	2- 3
3- 7 Ditches, Eldora, Iowa	1-27
3-10*Ditch, Warrensburg, Mo.	2-10
4- 1 Torpedo boats, Wash., D. C.	2- 3
4- 4 Culverts, Ashley, N. Dak.	2-10
4-30 Ditch, Olivia, Minn.	12-23

Examinations.

2-16 Computer, Philippines	1-20
2-16 Hydraulic engr., Wash., D. C.	1-20
2-16 Topographic aid, Wash., D. C.	1-20
2-16 Asst. geologist, Wash., D. C.	1-20
2-21 Rodman, New York	1-20
2-26 Topographic Draftsman, Albany.	2- 3
2-26 Franchise Examiner, Albany	2- 3
2-26 Junior Ry. Engr., Albany	2- 3
2-28 Transitman, New York.	1-20
3- 3 Junior chemist, Wash., D. C.	1-27
3- 3 Technical Asst., Wash., D. C.	2-10
3- 9 Junior Animal Husbandman, Wash., D. C.	2-10
3- 9 Chemist, Wash., D. C.	2-10
3- 9 Topographic draftsmen, Wash., D. C.	1-27
3-30 Scientific Asst., Wash., D. C.	2-10

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 229 Broadway, New York.

Bids close.	Work.	See issue.
2-15	Coal-handling plant, N. Chicago, Ill. (S)	1-27
2-15*	Paving, Norfolk, Va.	2- 3
2-16	Sewers, East St. Louis, Ill.	2- 3
2-19	Drain, Charleston, S. C. (S)	1-27
2-19	Quarters, Bremerton, Wash. (S.)	1-13
2-21*	Power plant, Tacoma, Wash. (P. & S.)	1-27
2-21	Laundry, Ft. Logan, Colo. (S.)	2- 3
2-23	Dredging excavation, Chicago. (S)	2- 3
2-24	Pile, crib walls, Wheeling W. Va. (S)	2- 3
3- 5	Piers, Charleston, S. C. (S.)	2- 3
3-12	Wire rope mill, Boston, Mass. (S)	2-10
3-18	Post-office, Rome, Ga.	2- 3

EXAMINATIONS.

SCIENTIFIC ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 30, to secure eligibles from which to make certification to fill a vacancy in the position of Scientific Assistant, $720 a year, in the Bureau of Fisheries, and possibly one at $900 a year, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. It is also expected to fill, as the result of this examination, a vacancy in the position of Fishery Expert on the "Albatross," at $1,200 a year. Men only will be admitted to this examination. Age limit, 20 years. Application form 1312.

CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 9, to secure eligibles from which to make certification to fill a vacancy in the position of Chemist qualified in metallurgy and metallography, in the Bureau of Standards, at a salary of $2,000 to $3,000 a year, to be fixed according to the qualifications shown by the applicant, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. Age limit, 20 years. Application form 1312. Applications must be filed prior to closing hour on March 9.

TECHNICAL ASSISTANT. — Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 3, to secure eligibles from which to make certification to fill a vacancy in the position of Technical Assistant in Pharmacology (male), Division of Pharmacology, Hygienic Laboratory, Public Health and Marine-Hospital Service, at $1,800 a year, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. It will not be necessary for applicants to appear at any place for examination. Age limit, 21 years. Application form 304 and special form. Applications must be filed prior to closing hour on March 3.

JUNIOR ANIMAL HUSBANDMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 9, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Junior Animal Husbandman (male), at salaries ranging from $1,260 to $1,560 a year, in the Bureau of Animal Industry, Dept. of Agriculture. As the result of this examination certification will be made to fill a vacancy at $1,500 a year, for which it is desired to secure eligibles qualified in the major optional subject, identification, testing, and uses of animal fibers—unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. Competitors will not be assembled for any of the tests. Age limit, 21 years. Application form 304 and special form. Applications must be filed prior to closing hour on March 9th.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 56.

SEWER SYSTEM.

Mt. Sterling, Ky.

Sealed proposals will be received by the City Clerk at his office, Mt. Sterling, Ky., until 1 P. M., March first, 1910, for the furnishing of all materials and laying complete about nine and one-half miles of sewers, varying in size from six to twenty-four inches in diameter, together with all manholes, lampholes, flush tanks, etc., also reinforced concrete septic tanks.

Specifications, instruction to bidders and blank forms of bidding sheets may be obtained and plans and profiles may be seen at the office of R. G. Kern, Mt. Sterling, Ky., or at the office of Chas E. Collins, Consulting Engineer, Drexel Building, Philadelphia, Pa.

All proposals shall be made on the blank forms furnished by the City for this purpose and shall be accompanied by a certified check upon a national bank and drawn to the order of W. A. Samuels, Mayor, for the sum of Five Hundred ($500.00) Dollars

The City of Mt. Sterling reserves the right to reject any or all bids.

W. A. SAMUELS,
Mayor.

STEEL CONDUIT.

Portland, Ore.

Sealed proposals will be received by The Water Board of the City of Portland, Oregon, until 4 P. M., Tuesday, March 8, 1910, for furnishing materials and labor for the construction of a steel conduit from headworks to Mt. Tabor, practically parallel with the present Bull Run conduit, a total approximate distance of 24 miles, and consisting of 52,915 lin. ft. of 52-in. and 75,379 lin. ft. of 44-in. steel pipe and specials in place; the entire work to be completed within 18 months after the date of the contract.

Specifications and forms of proposal can be obtained at the office of D. D. Clarke, Engineer of the Water Board, City Hall, Portland, Oregon.

With each proposal must be deposited a certified check, payable to the order of the Mayor of the City of Portland, Oregon, equal to at least 5% of the amount of the bid, as liquidated damages in case the bidder, if awarded the contract, fails to execute it and furnish bonds acceptable to the Mayor of said City of Portland within 10 days after the receipt of a notice that the contract has been awarded to said bidder.

The Water Board reserves the right to reject any or all proposals.

Proposals must be enclosed in sealed envelopes, endorsed on the outside "Proposals for Bull Run Conduit No. ," and addressed to the undersigned.

By order of the Water Board.

FRANK T. DODGE,
Superintendent.

Portland, Oregon, Feb. 2, 1910.

Specifications for the work will be on file at the office of Engineering News about the 14th inst.

CONCRETE BRIDGE.

Reading, Pa., Feb. 7th, 1910.

Bids will be received at the office of the undersigned up to 10 o'clock a. m., March 3d, 1910, for the erection of a reinforced-concrete arch bridge in Wyomissing Borough, Berks County, Pa. Plans and specifications can be had at the County Commissioners' office, Reading, Pa. A deposit of five dollars must be made for each set of plans taken out, which will be returned when plans are sent back.

All bids must be accompanied with a certified check equal to 10% of the aggregate amount of the bid. The right is reserved to reject any or all bids.

A. L. RHOADS,
County Controller.

PAVING.

Wadsworth, Ohio.

Sealed bids will be received by the Village Council of the Village of Wadsworth, Ohio, at the office of the Village Clerk until twelve (12) o'clock, noon, Feb. 28, 1910, for furnishing the necessary labor and materials for the improving of South Main St., from the Erie R. R. Co. tracks to the south line of J. W. Billman lot 930 and Pardee St., from the west line of Pardee St. to the west line of Mrs. Kate Hook's property in the Village of Wadsworth, Ohio, by grading, draining, setting curbs and paving with paving bricks, in accordance with plans; specifications on file in the office of the Village Clerk. (Both pieces make about 1 mile of paving.)

L. F. ALLEN, Clerk.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., February 5, 1910.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 8th day of March, 1910, and then opened, for the retaining wall, etc., at the U. S. Post Office at Bristol, Conn., in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Postmaster at Bristol, Conn., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

Situations Wanted

GRADUATE ENGINEER, 8 years' experience, 4 years in statistical, valuation and accounting practice, desires employment with steam or electric road in managerial or accounting position. Address "C. B. 6," Engineering News, New York. 6-1t

Situations Open

WANTED—Competent bridge draftsman with theoretical knowledge of stresses; some knowledge of reinforced concrete preferred; location Portsmouth, Va. Give full details of experience, age, nationality, salary expected, etc. Address "D. B. 6," Engineering News, New York. 6-1t

WANTED—Experienced hydraulic dredge captain. Apply room 2339, Park Row Building, New York. 6-2t

WANTED—Assistant engineer to take charge of party on railway location and construction in Cuba. Address "E. B. 6," Engineering News, New York. 6-1t

Miscellaneous Wants

WANTED—$25,000 by company having large contracts in New York State; good profits. Address "W. B. 6," Engineering News, New York. 6-1t